

TSD File Inventory Index

Date: February 7, 2002

Initial: CMH/nnw

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Note: Transmittal Letter to Be Included with Reports.

Comments: _____

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 5

DATE:

SUBJECT: CEI Inspection Report
AKZO NOBEL CHEMICALS, INC.
McCook, Illinois

FROM: Pamela Molitor
Geologist

TO: File

Inspection Date: March 23, 1999

Facility: Akzo Nobel Chemicals Inc.
8201 W. 47th Street
McCook, Illinois 60525

Facility EPA ID #: ILD 057 833 642

SIC Code: 2869

EPA Representatives: Pamela Molitor, ECAB
Geologist
(312)886-3543

Duncan Campbell, ECAB
Environmental Protection Specialist
(312)886-4555

Facility Representatives: Cliff Barr
Plant Manager
(708)4477990 Ext. 211
Fax (708)447-3270

Philip Bohlander
Environmental Engineer
(708)447-7990 Ext. 269

George E. Yanku, P.E.
Environmental Manager
(708)447-7990 Ext. 237

Report Prepared by:
Purpose of Inspection:

This was a targeted inspection because Akzo Nobel Chemicals was thought to fall within the Organic Chemical Sector, designated by SIC 2869.

Facility Background:

Akzo Nobel Chemicals, Inc. (Akzo Nobel) located in McCook, Illinois, occupies 26 acres and has 130 employees. It is engaged in the manufacturing of fatty amines whose product applications include fabric softeners, cosmetics, anti-static agents, slip agents, wetting agents, mineral flotation agents, asphalt additives and detergent and petroleum additives.

Akzo Nobel is a leading worldwide supplier of specialty, functional, and bulk chemicals. Products include catalysts and additives for the manufacture and processing of polymers and elastomers; catalysts for the oil refining and petrochemical industries; intermediates for detergents, cleaning and personal care; surfactants for resource recovery, metal treatment, and other applications; bleaching chemicals for the pulp industry; paper chemicals; fire-retardant additives for plastics; chelates; ethyl amines; methyl amines; salt; chlorine; alkali products; monochloroacetic acid; carboxymethylcellulose; specialty cellulose-based rheology additives for paint and building applications; and carbon disulfide. It is the market leader in cationic (fatty amine-based) surfactants that are derived from animal fats.

The McCook facility began operation in 1948 and included the following operations: fat splitter, nitrile unit, batch hydrogenation fatty acid, and amine distillation. During the 1950s, operations expanded to include a crystalizer, which is no longer in existence, the arguad unit (quaternary ammonium salt production), and the first ethoxylation unit. Then, in 1964 a second ethoxylation unit was added. The 1970s saw the addition of an amine oxide reactor and a wiped film evaporator, used to purify amides. In 1980, a venture into paper chemicals proved fiscally unsound and was discontinued but the unit was converted in 1991 to diamine, surfactants, and sealers (DSS), manufacturing and is used today for development of new products. At present, the plant has four main processing units: fatty acid and amine distillation, a quaternization unit, an ethoxylation unit and the DSS unit. Most of the products produced at the McCook plant are considered industrial surfactants and are used in agricultural products, personal care products, detergents and fabric softeners.

Basic Process

The basic raw materials are fatty acids and amines derived from animal fats, and vegetable oils; ammonia; ethylene oxide and propylene oxide; methyl chloride, benzyl chloride and dimethyl sulfate; hydrogen peroxide; and alcohols. In the quarternization area, tertiary amines are reacted with methyl chloride, benzyl chloride or dimethyl sulfate to form quaternary ammonium salts. In addition, distilled fatty acids are reacted with ammonia to form fatty amides. In the ethoxylation area, fatty acids, amines, and amides are reacted with ethylene oxide or propylene oxide to form ethoxylated and propoxylated derivatives. Distilled tertiary amines are reacted with hydrogen peroxide to form amine oxides, and amides are distilled to produce high purity distilled amides. In the DSS unit, amines are reacted with fatty acids to form amido amines, ester amines and imidazolines.

Inspection Findings

On March 23, 1999, a compliance enforcement inspection was conducted at Akzo Nobel by the United States Environmental Protection Agency (U.S. EPA), Region 5, Enforcement and Compliance Assurance Branch, representatives Pamela Molitor and Duncan Campbell. Upon arriving at the facility, we identified ourselves and explained the purpose of our inspection to Philip Bohlander, environmental engineer; and Cliff Barr, plant manager, who provided us with an overview of the facility processes.

During our opening discussion, Phil Bohlander stated that the Akzo facility located at 8401 W. 47th Street, EPA ID # ILD 000 805 705, went through closure with IEPA and was demolished in the summer of 1994. George Yanku, of Akzo, stated that they fulfilled all the closure requirements for this facility but then failed to notify IEPA Bureau of Land that it was no longer generating hazardous waste and also no longer in business at this location. Subsequently, the U.S. EPA Resource Conservation and Recovery Information System (RCRIS) database does not reflect this information. Since facility # ILD 000 805 705 is now a vacant lot, our inspection focused on the facility located at 8201 W. 47th street EPA # ILD 057 833 642.

The inspection included a review of the following records in accordance with the requirements for large quantity generators: hazardous waste determination information, manifests, contingency plan, emergency procedures, personnel training and record keeping, waste analysis, State of Illinois annual reports, and

weekly inspections. All documents were in place, updated and performed as required by 40 CFR §262 and all references to 40 CFR §265 contained within §262 and all of 40 CFR §268 that apply.

A tour through the facility was conducted by Phil Bohlander and included all process areas. The plant is undergoing asbestos removal from all areas. The work is being performed by the Dobbs Group.

The walk-through began with the Arquad area, building 26, where quaternary ammonium salt production occurs. The unit in place is currently being replaced by a new unit under construction. This new Arquad unit, which will include new reactors, is replacing a 50 year-old process. There is a 25 yd³ roll off-box containing salt cakes from filters, formerly special waste number 924695 and wiped film evaporator bottoms, formerly special waste number 931765, at this process area that is removed by County Environmental, Pontiac Illinois and taken to a landfill located in Livingston County, Illinois. While the waste streams have not changed, the categorization as special waste by the state of Illinois is no longer applicable.

The next process area we saw was the distillation unit that is under asbestos removal, and will be dismantled and torn down after the asbestos removal is completed. The fatty acid still has been shut down but the amine still will continue to operate until the Morris still is up and running; at which time, all distillation will move to the plant in Morris, Illinois. Still bottoms are sent as non-hazardous waste to Beaver Oil and are used for fuel recovery and blended as an alternative fuel for non RCRA regulated facilities.

Next, we inspected the diamine, surfactants and sealers (DSS) and finished products unit, which is the former paper chemical unit and is currently used for the development of new products. Here, amines are reacted with fatty acids to form amido amines, ester amines and imidazolines. Overall, more than 200 products are manufactured at the McCook facility; most are produced for Proctor and Gamble.

The last process area we viewed was the Ethoxylation unit, where fatty acids, amines and amides are reacted with either ethylene oxide or propylene oxide to form ethoxylated and propoxylated derivatives.

We then inspected the construction area of the property where

building materials were being stored along with old empty drums earmarked for the crusher.

Finally, we walked through the laboratory which periodically becomes the point of generation for either spent or off-spec laboratory reagents that are hazardous for various reasons, and are placed in a satellite container. At the time of the inspection, it was observed that the sole hazardous waste container was in compliance with all 40 CFR §262.3 requirements as it refers to portions of 40 CFR §265.

The walk-through ended at the warehouse and shipping area which houses the finished products and occasionally may store returned product which were returned by the client for various reasons. Akzo makes a determination to the utility of said returned materials. If the product is to be disposed, Akzo will then make a waste determination and comply with all of 40 CFR §262 Subpart C - Pre-Transport Requirements, as documented in Akzo's Standard Operating Procedure (SOP), for returned products.

Aside from some minor housekeeping problems, such as empty drums strewn about creating an eyesore, the facility appeared in compliance. All hazardous waste containers (55 gallon drums) were closed, labeled, in good condition and marked with the date upon which the hazardous waste accumulation began. The facility's record keeping was current and complete as well as the training program and Contingency Plan. On December 5, 1998 a release incident occurred. Approximately 770 pounds of Methyl Chloride was released to the atmosphere as the result of a leaking reactor agitator seal. Illinois Emergency Management Agency was notified and an incident number was assigned, 982992. In addition, The National Response Center was notified of the release and assigned Incident No. 466455.

Attachments:

1. Facility site plan
2. Annual Reports
3. IEPA Waste Stream Permits
4. Waste Analysis
5. Spill Report
6. Training record
7. General facility information



March 1, 1999

Illinois Environmental Protection Agency
Bureau of Land #24
P.O. Box 19276
Springfield, IL 62794-9276


Gentlemen/Madams:

Attached is an original and one copy of the 1998 Generators Annual Hazardous Waste Report for Akzo Nobel Chemicals Inc., McCook plant.

If you have any questions or require additional information, please contact us at 708-447-7990.

Sincerely,

Akzo Nobel Chemicals Inc.


Philip Bohlander
Environmental Engineer

cc: C. Barr
G. Yanku
M. Tehrani

Akzo Nobel Chemicals Inc.
8201 West 47th Street
P.O. Box 1569
McCook, Illinois 60525-1569
Tel. (708) 447 7990
Fax (708) 447 3270

AKZO NOBEL CHEMICALS INC
8201 W 47TH ST
MCCOOK

IL
60525

ILLINOIS Environmental Protection Agency
1998 Hazardous Waste Report
Form IC - Identification and Certification

Instructions for this form found on pages 11-16

This form must be completed for the location shown on the above label. If you need additional forms for other locations, call IEPA.

SECTION 1. GENERATOR STATUS

A. 31 1 RCRA Generator Status (enter one code)

1 = LQG

2 = SQG

Skip to Box C

3 = CESGQ

4 = Nongenerator (continue to Box B)

B. Reason for not generating (Check all that apply)

32 ☐ Never generated

33 ☐ Out of business

34 ☐ Only excluded or delisted waste generated

35 ☐ Only non-hazardous waste generated

36 ☐ Periodic generator, none in reporting year

37 ☐ Waste minimization activity

38 ☐ Other (specify in comments box)

C. 39 1 Status Time Period: 1 = Expected to be the same next year and following years 2 = Expected to change next year

SECTION 2. ENTER THE SIC CODE(S) FOR THIS LOCATION

40 2869 44 48 52

SECTION 3. ON-SITE WASTE MANAGEMENT STATUS (enter one code for each question)

A. 56 1 RCRA regulated (permitted or interim status) storage

B. 57 1 RCRA permitted or interim status treatment, disposal, or recycling

C. 58 1 Treatment, disposal, or recycling exempt from RCRA permit requirements

SECTION 4. WASTE MINIMIZATION ACTIVITY DURING THE REPORTING YEAR. (Only LQGs are required either to complete Section IV or submit detailed waste minimization description (see page 3).)

A. 59 Y Does your facility have a waste minimization plan or organized approach to investigate source reduction and recycling opportunities? Enter Y for Yes (Continue to Question B) or N for No (Skip to Question C)

B. Enter Y (Yes) for all activities that describe your waste minimization program.

a. 60 Y Set a waste minimization goal

b. 61 Y Use team approach for planning

c. 62 ☐ Provide employee training

d. 63 Y Identify types and amounts of waste generated by various processes and their causes

e. 64 ☐ Assess total costs of waste management

f. 65 Y Prioritize waste minimization options based on costs, benefits and feasibility

g. 66 Y Periodically update the program and re-evaluate options

h. 67 ☐ Encourage employees to offer waste minimization suggestions

i. 68 Y Incorporate waste minimization into procurement, marketing and product development activities

j. 69 ☐ Other (describe in comments box)

C. What kind of incentives would you like to see developed to help promote more source reduction activity at your facility? Enter Y (Yes) for all that apply.

a. 70 ☐ Tax incentives

b. 71 ☐ Loan assistance for equipment

c. 72 Y Compliance flexibility

d. 73 ☐ On-site technical assistance

e. 74 ☐ Regulatory compliance assistance

f. 75 Y Employee training

g. 76 ☐ R&D assistance

h. 77 ☐ Expedited permit review

i. 78 ☐ Other (enter comments on separate page)

D. Would you like to receive information on waste minimization? Enter Y (Yes) for information requested.

a. 79 ☐ On-site technical consultation with IEPA

b. 80 ☐ On-site technical consultation with Illinois Waste Management and Research Center

Comments: 83 ☐ Enter Y (Yes) if you have comments regarding this page and attach extra sheet.

Section 5. The Environmental Protection Agency is authorized to require this information under the Illinois Compiled Statutes ("ILCS"), 1994 as amended, Chapter 415 ILCS 5/4 and 21. Disclosure of this information is required. Failure to disclose this information may result in civil and criminal penalties pursuant to 415 ILCS 5/42 and 44. This form has been approved by the Forms Management Center.

Certification: I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

A. Please print: Last Name BARR

First Name CLIFF

B. Title PLANT MANAGER

C. Signature [Signature]

D. Date of Signature 3/1/99

AKZO NOBEL CHEMICALS INC
9201 W 47TH ST
MCCOOK

60525

ILLINOIS Environmental Protection Agency
1998 Hazardous Waste Report
Form GM - Generation and Management

Instructions for this form found on pages 17-32.

SECTION 1. WASTE DESCRIPTION

A. Waste Description: IGNITABLE OUT OF SPEC. REFRIGERANT FROM VAPOR RECOVERY SYSTEM; TERPENES

B. EPA Hazardous Waste Code: D 0 0 1

C. SIC code: 2 8 6 9

D. Origin Code: 1 System type: M E. Source Code: A 7 8 A A

F. Point of Measurement: 1 G. Waste form code: B 2 0 7

H. Radioactive mixed: 2 I. TRI Constituent: 2

J. CAS numbers: 1. 76 2. 84 3. 92
4. 100 5. 108

SECTION 2. QUANTITY GENERATED

A. UOM: 1 Density: 7.01 (Same unit and density must be used for all quantities on this page).

Quantity generated in: B. Previous reporting year: 0.0

C. Current reporting year: 330.0

D. QUANTITY MANAGED ON-SITE: Did this location manage some or all of this waste in exempt or regulated treatment, recycling, or disposal units at this location? N Y = Yes (continue to system 1) N = No (skip to section 3)

On-Site System 1: System Type M Status 142 Quantity managed on-site this year: 147

On-Site System 2: System Type M Status 157 Quantity managed on-site this year: 162

SECTION 3. OFF-SITE SHIPMENT

A. Was any of this waste shipped off site this reporting year? Y Y = Yes (Continue to Site 1) N = No (Skip to Section 4)

SITE 1. Name and address of facility: BEAVER OIL CO
6037 LENZI AVE,
HODGKINS, IL 60525

B. U.S. EPA ID No. of facility waste was shipped to: 1 4 0 0 6 4 4 1 8 3 5 3

C. System type shipped to: M 0 6 1 D. Off-site availability code: 1

E. Total quantity shipped in this reporting year: 220.0

SITE 2. Name and address of facility: PETRO-CHEM
431 LYCASTE ST.
DETROIT, MI 48214

B. U.S. EPA ID No. of facility waste was shipped to: M 1 0 9 8 0 6 1 5 2 9 8

C. System type shipped to: M 0 6 1 D. Off-site availability code: 1

E. Total quantity shipped in this reporting year: 110.0

SECTION 4. WASTE MINIMIZATION ACTIVITIES

A. Did you engage in any waste minimization activities for this reporting year? N Y = Yes (Cont to Box B) N = No (Cont to Section 5)

B. Activity: W W W W W W C. Other Effects? (Y = Yes, N = No) 245

D. How many new waste minimization activities were implemented in this reporting year for this waste? 247 (Number)

E. Quantity recycled in reporting year due to new activities: 248

F. Activity/Production index: 258 G. Source Reduction quantity due to new activities: 261

SECTION 5. REGULATED STORAGE

A. Did this site store RCRA wastes 90 days or more and then ship it off-site (to site shown in Section 3)? (Y=Yes, N=No) N

B. Did this site store RCRA wastes on-site for more than 90 days but waste is in storage at year end: (Y=Yes, N=No) N

Quantity stored at year end and for 90 days or more, generated this reporting year: 273

Quantity stored at year end that was generated prior to this reporting year: 283

COMMENTS: Enter Y (Yes) if you have comments regarding this page and attach extra sheet. Page 2

AKZO NOBEL CHEMICALS INC
9201 W 47TH ST
MCCOOK

60525

ILLINOIS Environmental Protection Agency
1998 Hazardous Waste Report
Form GM - Generation and Management

Instructions for this form found on pages 17-32.

SECTION 1. WASTE DESCRIPTION

A. Waste Description: IGNITABLE, OUT OF DATE CHEMICAL MIXTURE FROM CHEMICAL PRODUCTION WITH NAPHTHA

B. EPA Hazardous Waste Code: D 0 0 1

C. SIC code: 2 8 6 9

D. Origin Code: 1 System type: M E. Source Code: A 5 8 A A

F. Point of Measurement: 1 G. Waste form code: B 2 1 9

H. Radioactive mixed: 2 I. TRI Constituent: 3

J. CAS numbers: 1. 9 1 - 2 0 - 3 2. - - - - - 3. - - - - -

4. - - - - - 5. - - - - -

SECTION 2. QUANTITY GENERATED

A. UOM: 1 Density: 7.27 (Same unit and density must be used for all quantities on this page).

Quantity generated in: B. Previous reporting year: 0.0

C. Current reporting year: 165.0

D. QUANTITY MANAGED ON-SITE: Did this location manage some or all of this waste in exempt or regulated treatment, recycling, or disposal units at this location? N Y = Yes (continue to system 1) N = No (skip to section 3)

On-Site System 1: System Type M Status 145 Quantity managed on-site this year: -

On-Site System 2: System Type M Status 157 Quantity managed on-site this year: -

SECTION 3. OFF- SITE SHIPMENT

A. Was any of this waste shipped off site this reporting year? Y Y = Yes (Continue to Site 1) N = No (Skip to Section 4)

SITE 1. Name and address of facility: PETRO-CHEM
421 LYCASTE ST.
DETROIT, MI 48214

B. U.S. EPA ID No. of facility waste was shipped to: M 1 D 9 8 0 6 1 5 2 9 8

C. System type shipped to: M 0 6 1 D. Off-site availability code: 1

E. Total quantity shipped in this reporting year: 165.0

SITE 2. Name and address of facility:

B. U.S. EPA ID No. of facility waste was shipped to: -

C. System type shipped to: M D. Off-site availability code: 275

E. Total quantity shipped in this reporting year: -

SECTION 4. WASTE MINIMIZATION ACTIVITIES

A. Did you engage in any waste minimization activities for this reporting year? N Y = Yes (Cont to Box B) N = No (Cont to Section 5)

B. Activity: W W W W W W C. Other Effects? (Y = Yes, N = No) -

D. How many new waste minimization activities were implemented in this reporting year for this waste? - (Number)

E. Quantity recycled in reporting year due to new activities: -

F. Activity/Production index: - G. Source Reduction quantity due to new activities: -

SECTION 5. REGULATED STORAGE

A. Did this site store RCRA wastes 90 days or more and then ship it off-site (to site shown in Section 3)? (Y=Yes, N=No) N

B. Did this site store RCRA wastes on-site for more than 90 days but waste is in storage at year end: (Y=Yes, N=No) N

Quantity stored at year end and for 90 days or more, generated this reporting year: -

Quantity stored at year end that was generated prior to this reporting year: -

COMMENTS: Y Enter Y (Yes) if you have comments regarding this page and attach extra sheet. Page 3

Comment

Page 3: Sec. 1 G. Waste form code B219: Chemical mixture is rubber and naphtha.

AKZO NOBEL CHEMICALS INC
9201 W 47TH ST
MCCOOK IL
60525

ILLINOIS Environmental Protection Agency
1998 Hazardous Waste Report
Form GM - Generation and Management

Instructions for this form found on pages 17-32.

SECTION 1. WASTE DESCRIPTION

A. Waste Description: IGNITABLE, OUT OF SPEC. CHEMICAL MIXTURE FROM CHEMICAL PRODUCTION WITH ISOPROPANOL
B. EPA Hazardous Waste Code: D001
C. SIC code: 2869
D. Origin Code: 51 System type: M E. Source Code: A57
F. Point of Measurement: 69 G. Waste form code: B219
H. Radioactive mixed: 2 I. TRI Constituent: 2
J. CAS numbers: 1. 76 2. 84 3. 92
4. 100 5. 108

SECTION 2. QUANTITY GENERATED

A. UOM: 1 Density: 8.00 (Same unit and density must be used for all quantities on this page).
Quantity generated in: B. Previous reporting year: 0.0
C. Current reporting year: 990.0
D. QUANTITY MANAGED ON-SITE: Did this location manage some or all of this waste in exempt or regulated treatment, recycling, or disposal units at this location? N Y = Yes (continue to system 1) N = No (skip to section 3)
On-Site System 1: System Type M Status 145 Quantity managed on-site this year: 147
On-Site System 2: System Type M Status 161 Quantity managed on-site this year: 162

SECTION 3. OFF-SITE SHIPMENT

A. Was any of this waste shipped off site this reporting year? Y Y = Yes (Continue to Site 1) N = No (Skip to Section 4)
SITE 1. Name and address of facility: BEAVER OIL CO.
6037 LENZI AVE.
MCDONALD, IL 60525
B. U.S. EPA ID No. of facility waste was shipped to: IL D064418353
C. System type shipped to: M061 D. Off-site availability code: 1
E. Total quantity shipped in this reporting year: 990.0
SITE 2. Name and address of facility:
B. U.S. EPA ID No. of facility waste was shipped to:
C. System type shipped to: M D. Off-site availability code:
E. Total quantity shipped in this reporting year:

SECTION 4. WASTE MINIMIZATION ACTIVITIES

A. Did you engage in any waste minimization activities for this reporting year? Y Y = Yes (Cont to Box B) N = No (Cont to Section 5)
B. Activity: W W W W W W C. Other Effects? (Y = Yes, N = No)
D. How many new waste minimization activities were implemented in this reporting year for this waste? (Number)
E. Quantity recycled in reporting year due to new activities:
F. Activity/Production index: G. Source Reduction quantity due to new activities:

SECTION 5. REGULATED STORAGE

A. Did this site store RCRA wastes 90 days or more and then ship it off-site (to site shown in Section 3)? (Y=Yes, N=No) N
B. Did this site store RCRA wastes on-site for more than 90 days but waste is in storage at year end: (y=Yes, N=No) N
Quantity stored at year end and for 90 days or more, generated this reporting year: 273
Quantity stored at year end that was generated prior to this reporting year: 283

COMMENTS: Y Enter Y (Yes) if you have comments regarding this page and attach extra sheet. Page 5
293 13

Comment

Page 5: Sec. 1 G. Waste form code B219: Chemical mixture is ethoxylated quaternary ammonium salt with isopropanol.

AKZO NOBEL CHEMICALS INC
9201 W 47TH ST
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IL
60525

ILLINOIS Environmental Protection Agency
1998 Hazardous Waste Report
Form GM - Generation and Management

Instructions for this form found on pages 17-32.

SECTION 1. WASTE DESCRIPTION

A. Waste Description: IGNITABLE, OUT-OF-DATE CHEMICAL MIXTURE FROM CHEMICAL PRODUCTION WITH ISOPROPANOL

B. EPA Hazardous Waste Code: D001

C. SIC code: 2869

D. Origin Code: 55 System type: M E. Source Code: A58 A A

F. Point of Measurement: 1 G. Waste form code: B219

H. Radioactive mixed: 2 I. TRI Constituent: 2

J. CAS numbers: 1. 76 2. 84 3. 92
4. 100 5. 108

SECTION 2. QUANTITY GENERATED

A. UOM: 1 Density: 7.09 (Same unit and density must be used for all quantities on this page).

Quantity generated in: B. Previous reporting year: 0.0

C. Current reporting year: 4620.0

D. QUANTITY MANAGED ON-SITE: Did this location manage some or all of this waste in exempt or regulated treatment, recycling, or disposal units at this location? N Y = Yes (continue to system 1) N = No (skip to section 3)

On-Site System 1: System Type M Status 145 Quantity managed on-site this year: 147

On-Site System 2: System Type M Status 157 Quantity managed on-site this year: 162

SECTION 3. OFF-SITE SHIPMENT

A. Was any of this waste shipped off site this reporting year? Y Y = Yes (Continue to Site 1) N = No (Skip to Section 4)

SITE 1. Name and address of facility: PETRO-CHEM
421 LYCASTE ST.
DETROIT, MI 48214

B. U.S. EPA ID No. of facility waste was shipped to: MI D980615298

C. System type shipped to: M061 D. Off-site availability code: 1

E. Total quantity shipped in this reporting year: 4620.0

SITE 2. Name and address of facility:

B. U.S. EPA ID No. of facility waste was shipped to: 200

C. System type shipped to: M D. Off-site availability code: 216

E. Total quantity shipped in this reporting year: 217

SECTION 4. WASTE MINIMIZATION ACTIVITIES

A. Did you engage in any waste minimization activities for this reporting year? N Y = Yes (Cont to Box B) N = No (Cont to Section 5)

B. Activity: W W W W W W C. Other Effects? (Y = Yes, N = No) 246

D. How many new waste minimization activities were implemented in this reporting year for this waste? 247 (Number)

E. Quantity recycled in reporting year due to new activities: 248

F. Activity/Production index: 258 G. Source Reduction quantity due to new activities: 261

SECTION 5. REGULATED STORAGE

A. Did this site store RCRA wastes 90 days or more and then ship it off-site (to site shown in Section 3)? (Y=Yes, N=No) N

B. Did this site store RCRA wastes on-site for more than 90 days but waste is in storage at year end: (Y=Yes, N=No) N

Quantity stored at year end and for 90 days or more, generated this reporting year: 273

Quantity stored at year end that was generated prior to this reporting year: 283

COMMENTS: Y Enter Y (Yes) if you have comments regarding this page and attach extra sheet. Page 7

Comment

Page 7: Sec. 1 G. Waste form code B219: Chemical mixture is quaternary ammonium salt with isopropanol.

AKZO NOBEL CHEMICALS INC
9201 W 47TH ST
MCCOOK

IL
60525

ILLINOIS Environmental Protection Agency
1998 Hazardous Waste Report
Form GM - Generation and Management

Instructions for this form found on pages 17-32.

SECTION 1. WASTE DESCRIPTION

A. Waste Description: IGNITABLE OUTF OF SPEC. CHEMICAL MIXTURE FROM CHEMICAL PRODUCTION WITH ISOPROPANOL.
B. EPA Hazardous Waste Code: D 0 0 1
C. SIC code: 2 8 6 9
D. Origin Code: 1 System type: M E. Source Code: A 5 7 A A
F. Point of Measurement: 2 G. Waste form code: B 2 1 9
H. Radioactive mixed: 2 I. TRI Constituent: 2
J. CAS numbers: 1. 76 2. 84 3. 92
4. 100 5. 108

SECTION 2. QUANTITY GENERATED

A. UOM: 1 Density 7.80 (Same unit and density must be used for all quantities on this page).

Quantity generated in: B. Previous reporting year: 0.0
C. Current reporting year: 5900.0

D. QUANTITY MANAGED ON-SITE: Did this location manage some or all of this waste in exempt or regulated treatment, recycling, or disposal units at this location? N Y = Yes (continue to system 1) N = No (skip to section 3)

On-Site System 1: System Type M Status 145 Quantity managed on-site this year: 147
On-Site System 2: System Type M Status 161 Quantity managed on-site this year: 162

SECTION 3. OFF-SITE SHIPMENT

A. Was any of this waste shipped off site this reporting year? Y Y = Yes (Continue to Site 1) N = No (Skip to Section 4)

SITE 1. Name and address of facility: PETRO-CHEM
421 LYCASTE ST
DETROIT, MI 48214

B. U.S. EPA ID No. of facility waste was shipped to: M 1 0 6 1
C. System type shipped to: M 0 6 1 D. Off-site availability code: 1
E. Total quantity shipped in this reporting year: 5900.0

SITE 2. Name and address of facility:

B. U.S. EPA ID No. of facility waste was shipped to: 200
C. System type shipped to: M D. Off-site availability code: 216
E. Total quantity shipped in this reporting year: 217

SECTION 4. WASTE MINIMIZATION ACTIVITIES

A. Did you engage in any waste minimization activities for this reporting year? N Y = Yes (Cont to Box B) N = No (Cont to Section 5)

B. Activity: W W W W W W C. Other Effects? (Y = Yes, N = No) 246

D. How many new waste minimization activities were implemented in this reporting year for this waste? 247 (Number)

E. Quantity recycled in reporting year due to new activities: 248

F. Activity/Production index: 258 G. Source Reduction quantity due to new activities: 281

SECTION 5. REGULATED STORAGE

A. Did this site store RCRA wastes 90 days or more and then ship it off-site (to site shown in Section 3)? (Y=Yes, N=No) N

B. Did this site store RCRA wastes on-site for more than 90 days but waste is in storage at year end: (y=Yes, N=No) N

Quantity stored at year end and for 90 days or more, generated this reporting year: 273

Quantity stored at year end that was generated prior to this reporting year: 283

COMMENTS: Y Enter Y (Yes) if you have comments regarding this page and attach extra sheet. Page 9

Comment

Page 9: Sec. 1 G. Waste form code B219: Chemical mixture is an amine oxide, quaternary ammonium salt, and ethoxylated quaternary ammonium salt with isopropanol.

AKZO NOBEL CHEMICALS INC
8201 W 47TH ST
MCCOOK

IL
60525

ILLINOIS Environmental Protection Agency
1998 Hazardous Waste Report
Form TI - Transporter Identification

Instructions for this form found on page 33.

1. U.S. EPA ID No. M I D 0 2 1 0 8 7 2 7 5 Hauling Permit No. U P W 0 3 3 7 5 0 3 0 H
31 127

Transporter Name and Address: NORTRU TRANSPORT
11700 FRUED
DETROIT, MI 48214

2. U.S. EPA ID No. M I D 9 8 0 6 8 4 0 8 8 Hauling Permit No. N/A
43 139

Transporter Name and Address: SOLVENT DISTILLERS INC.
421 LYCASTE
DETROIT, MI 48214

3. U.S. EPA ID No. I L D 0 6 4 4 1 8 3 5 3 Hauling Permit No. U P M 3 0 9 6 0 8 I L
55 151

Transporter Name and Address: BEAVER OIL CO. INC.
6037 LENZI AVE
HODGKINS, IL 60525

4. U.S. EPA ID No. I L D 9 8 4 8 3 3 7 7 2 Hauling Permit No. 3 7 0 6
87 163

Transporter Name and Address: A+C ENVIRONMENTAL
8501 W. 191ST ST. UNIT 27
MUKENA, IL 60448

5. U.S. EPA ID No. _____ Hauling Permit No. _____
79 175

Transporter Name and Address:

6. U.S. EPA ID No. _____ Hauling Permit No. _____
91 187

Transporter Name and Address:

7. U.S. EPA ID No. _____ Hauling Permit No. _____
103 199

Transporter Name and Address:

8. U.S. EPA ID No. _____ Hauling Permit No. _____
115 211

Transporter Name and Address:

COMMENTS: Enter Y(Yes) if you have comments regarding this page; attach extra sheet. Page 11
223 13



January 8, 1999

Illinois Environmental Protection Agency
Bureau of Land (#24)
Solid Waste Section
1021 North Grand Avenue East
Post Office Box 19276
Springfield, Illinois 62794-9276

Subject: 1998 Nonhazardous Annual Report

Dear Sir/Madam:

Enclosed for your review is our 1998 Nonhazardous Annual Report for out of state shipments. No nonhazardous special waste was shipped to an out of state TSDR facility in 1998.

If you have any questions or require additional information, please call us at 708-447-7990.

Sincerely,

Philip Bohlander
Environmental Engineer

cc: C. Barr
G. Yanku

Akzo Nobel Chemicals Inc.
8201 West 47th Street
P.O. Box 1569
McCook, Illinois 60525-1569
Tel. (708) 447 7990
Fax (708) 447 3270



ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

1021 North Grand Avenue East, P.O. Box 19276, Springfield, Illinois 62794-9276

Mary A. Gade, Director

Illinois Nonhazardous Special Waste Annual Report Site Information Form

(This form must be completed for each site that submits an annual report)

Reporting Year: 1998

Site Information:

Site IEPA Identification Number: 031174004

Site Name: AKZO NOBEL CHEMICALS INC.

Site Street Address: 8201 W. 47TH ST.

Site City: McCook

Site State: IL Site Zip Code: 60525 Site Telephone: 708-447-7990

Check one of the following, if applicable:

☒ Generator- No nonhazardous special waste was shipped to an out of state TSDR Facility in this reporting year.

☐ Facility TSDR- No nonhazardous special waste was received at this TSDR Facility in this reporting year.

Site Mailing Address Information:

Company: AKZO NOBEL CHEMICALS INC Telephone: 708-447-7990

Contact Person: PHILIP BOHLANDER

Street Address: 8201 W. 47TH ST. P.O. Box 1569

City: McCook State: IL Zip Code: 60525-1569

Annual Report Certification

I certify under penalty of law that I have examined and am familiar with the information submitted in this and any attached continuation sheets or other attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate and complete, I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Name (print/type): CLIFF BARR Telephone: 708-447-7990

Signature: [Signature] Date: 1/8/99

This Agency is authorized to require this information under Illinois Revised Statutes, 1989, Chapter 111 1/2, Section 1004 and 1021. Disclosure of this information is required. Failure to do so may result in a civil penalty up to \$25,000 for each day the failure continued, a fine up to \$50,000 and imprisonment up to 5 years. This form has been approved by Forms Management Center.



ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

1021 North Grand Avenue East, P.O. Box 19276, Springfield, Illinois 62794-9276 Mary A. Gade, Director

December 31, 1998

Dear Environmental Coordinator:

Enclosed you will find the **1998 Nonhazardous Annual Report** that is required to be completed by certain generators under the Illinois Environmental Protection Act 22.01 and the Illinois Pollution Control Board Rules. You are required to report the types and quantities of nonhazardous special waste generated at your facility which you have shipped to a state **other than Illinois** for treatment, storage, disposal or recycling.

The Nonhazardous Annual Report describes the activity of the previous calendar year. It is a summation of only those nonhazardous and PCB wastes which were shipped **out-of-state** on either an Illinois manifest or a manifest from another state, with a shipping date of January 1 through December 31. The 1998 Nonhazardous Annual Report shall summarize the calendar year of 1998 and must be received at the Agency by **February 1, 1999**.

If you have any questions, please contact me at 217/785-5733.

Sincerely,

A handwritten signature in cursive script that reads "Joan McMillan".

Joan McMillan
Bureau of Land



ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

1021 North Grand Avenue East, P.O. Box 19276, Springfield, Illinois 62794-9276

Mary A. Gade, Director

Illinois Nonhazardous Special Waste Annual Report Site Information Form

(This form must be completed for each site that submits an annual report)

Reporting Year: _____

Site Information:

Site IEPA Identification Number: _____

Site Name: _____

Site Street Address: _____

Site City: _____

Site State: _____ Site Zip Code: _____ Site Telephone: _____

Check one of the following, if applicable:

___ Generator- No nonhazardous special waste was shipped to an out of state TSDR Facility in this reporting year.

___ Facility TSDR- No nonhazardous special waste was received at this TSDR Facility in this reporting year.

Site Mailing Address Information:

Company: _____ Telephone: _____

Contact Person: _____

Street Address: _____ P.O. Box _____

City: _____ State: _____ Zip Code: _____

Annual Report Certification

I certify under penalty of law that I have examined and am familiar with the information submitted in this and any attached continuation sheets or other attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate and complete, I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Name (print/type): _____ Telephone: _____

Signature: _____ Date: _____

This Agency is authorized to require this information under Illinois Revised Statutes, 1989, Chapter 111 1/2, Section 1004 and 1021. Disclosure of this information is required. Failure to do so may result in a civil penalty up to \$25,000 for each day the failure continued, a fine up to \$50,000 and imprisonment up to 5 years. This form has been approved by Forms Management Center.



ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

1021 North Grand Avenue East, P.O. Box 19276, Springfield, Illinois 62794-9276

Mary A. Gade, Director

Illinois Generator Nonhazardous Special Waste 1998 Annual Report For Waste Shipped Out-Of-State

031 17400 04

AKZO NOBEL CHEMICALS INC
8201 W 47TH ST
MCCOOK

IL
60525

Waste Number	Out-of-State TSD Facility Name & Address (Address must match ID Number)	TSD IEPA ID Number	Waste Code	Management Code	Unit of Measure	Quantity	Comments
1							
2							
3							
4							
5							
6							
7							
8							
9							
0							



COUNTY ENV.-LIVINGSTON
RR# 3
Rowe Road
ntiac, IL 61764-0646

Location Collected: AKZO NOBLE - McCOOK, IL
Date Sample Collected: 12/20/1994
Sample Description: WFE BOTTOMS
EAS Sample Number: 9406809
Date Sample Received: 12/23/1994

Parameter	Data	Quantitation Limit	Units	Analysis Date
Total Solids	100.	1.0	%	01/04/95
Cyanide, Reactive	BQL	5.0	mg/kg	01/04/95
Cyanide, Total	BQL	5.0	mg/kg	01/04/95
Ignitability	NEGATIVE			01/04/95
Flashpoint	>150.	30.	°C	01/04/95
Paint Filter Test	PASSES			12/28/94
pH	11.			01/04/95
Phenols, Total	400.	50.	mg/kg	12/28/94
Sulfide, Reactive	BQL	10.	mg/kg	01/04/95
Sulfide, Total	BQL	10.	mg/kg	01/04/95
TCLP Extraction for Metals				01/06/95
Leachable Metals Digestion				01/05/95
Silver, TCLP Leachate	BQL	0.30	mg/L	01/06/95
Arsenic, TCLP Leachate	BQL	0.050	mg/L	01/05/95
Barium, TCLP Leachate	BQL	5.0	mg/L	01/06/95
Cadmium, TCLP Leachate	BQL	0.10	mg/L	01/06/95
Chromium, TCLP Leachate	BQL	0.40	mg/L	01/06/95
Mercury, TCLP Leachate	BQL	0.0050	mg/L	01/05/95
Lead, TCLP Leachate	BQL	0.60	mg/L	01/06/95
Selenium, TCLP Leachate	BQL	0.050	mg/L	01/06/95

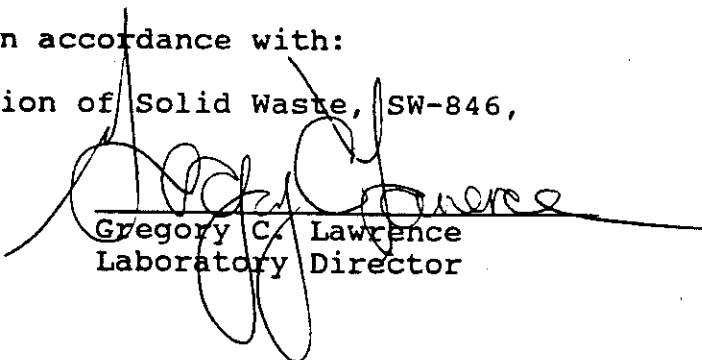
BQL = Below Quantitation Limit

* Certification *

Connecticut Certified Laboratory Number: PH 0558

The above analyses were conducted in accordance with:

1. EPA Test Methods for the Evaluation of Solid Waste, SW-846, 3rd Edition, December, 1987


Gregory C. Lawrence
Laboratory Director



COUNTY ENV.-LIVINGSTON
RR# 3
Powe Road
Matiac, IL 61764-0646

Location Collected: AKZO NOBLE McCOOK, IL
Date Sample Collected: 12/20/1994
Sample Description: WFE BOTTOMS
EAS Sample Number: 9406809
Date Sample Received: 12/23/1994

Parameter	Data	Quantitation Limit	Units	Analysis Date
TCLP Extraction for Semivolatiles				01/06/95
Aqueous TCLP BNA Extraction				12/30/94
TCLP Leachate for Semi-VOC's - Method SW-846-8000				
1,4-Dichlorobenzene	BQL	0.020	mg/L	01/05/95
2,4,5-Trichlorophenol	BQL	0.020	mg/L	01/05/95
2,4,6-Trichlorophenol	BQL	0.020	mg/L	01/05/95
2,4-Dinitrotoluene	BQL	0.020	mg/L	01/05/95
Total Cresol	BQL	0.020	mg/L	01/05/95
Hexachlorobenzene	BQL	0.020	mg/L	01/05/95
Hexachlorobutadiene	BQL	0.020	mg/L	01/05/95
Hexachloroethane	BQL	0.020	mg/L	01/05/95
m-Cresol	BQL	0.020	mg/L	01/05/95
Nitrobenzene	BQL	0.020	mg/L	01/05/95
o-Cresol	BQL	0.020	mg/L	01/05/95
p-Cresol	BQL	0.020	mg/L	01/05/95
Pentachlorophenol	BQL	0.10	mg/L	01/05/95
Pyridine	BQL	0.020	mg/L	01/05/95
TCLP Extraction for Volatiles				12/29/94
TCLP Leachate for VOC's - Method SW-846-8000				
1,1-Dichloroethene	BQL	0.020	mg/L	12/29/94
1,2-Dichloroethane	BQL	0.020	mg/L	12/29/94
Benzene	BQL	0.020	mg/L	12/29/94
Carbon tetrachloride	BQL	0.020	mg/L	12/29/94
Chloroform	BQL	0.020	mg/L	12/29/94
Chlorobenzene	BQL	0.020	mg/L	12/29/94
2-Butanone (MEK)	BQL	0.020	mg/L	12/29/94
Tetrachloroethylene	BQL	0.020	mg/L	12/29/94
Trichloroethylene	BQL	0.020	mg/L	12/29/94
Vinyl chloride	BQL	0.020	mg/L	12/29/94

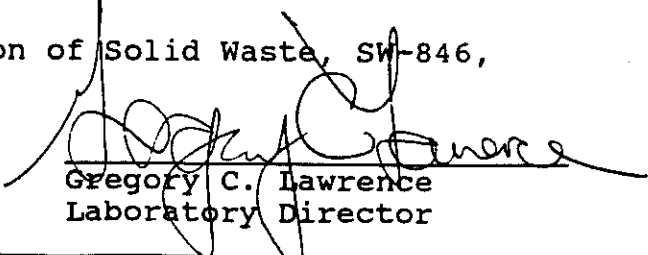
BQL = Below Quantitation Limit

* Certification *

Connecticut Certified Laboratory Number: PH 0558

The above analyses were conducted in accordance with:

1. EPA Test Methods for the Evaluation of Solid Waste, SW-846, 3rd Edition, December, 1987


Gregory C. Lawrence
Laboratory Director



COUNTY ENV.-LIVINGSTON
LR# 3
Rowe Road
Pontiac, IL 61764-0646

Location Collected:
Date Sample Collected: 01/11/1995
Sample Description: AKZ0-NOBLE COMPOSITE ~~SAMPLE~~ *Solid*
EAS Sample Number: 9500223
Date Sample Received: 01/16/1995

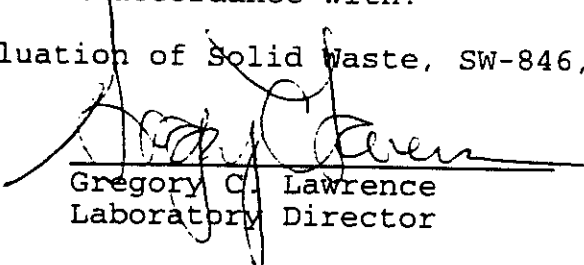
Parameter	Data	Quantitation Limit	Units	Analysis Date
TCLP Extraction for Semivolatiles				01/18/95
Aqueous TCLP BNA Extraction				01/17/95
TCLP Leachate for Semi-VOC's - Method SW-846-8000				
1,4-Dichlorobenzene	BQL	0.020	mg/L	01/23/95
2,4,5-Trichlorophenol	BQL	0.020	mg/L	01/23/95
2,4,6-Trichlorophenol	BQL	0.020	mg/L	01/23/95
2,4-Dinitrotoluene	BQL	0.020	mg/L	01/23/95
Total Cresol	BQL	0.020	mg/L	01/23/95
Hexachlorobenzene	BQL	0.020	mg/L	01/23/95
Hexachlorobutadiene	BQL	0.020	mg/L	01/23/95
Hexachloroethane	BQL	0.020	mg/L	01/23/95
m-Cresol	BQL	0.020	mg/L	01/23/95
Nitrobenzene	BQL	0.020	mg/L	01/23/95
o-Cresol	BQL	0.020	mg/L	01/23/95
p-Cresol	BQL	0.020	mg/L	01/23/95
Pentachlorophenol	BQL	0.10	mg/L	01/23/95
Pyridine	BQL	0.020	mg/L	01/23/95
TCLP Extraction for Volatiles				01/19/95
TCLP Leachate for VOC's - Method SW-846-8000				
1,1-Dichloroethene	BQL	0.020	mg/L	01/20/95
1,2-Dichloroethane	BQL	0.020	mg/L	01/20/95
Benzene	BQL	0.020	mg/L	01/20/95
Carbon tetrachloride	BQL	0.020	mg/L	01/20/95
Chloroform	0.030	0.020	mg/L	01/20/95
Chlorobenzene	BQL	0.020	mg/L	01/20/95
2-Butanone (MEK)	BQL	0.020	mg/L	01/20/95
Tetrachloroethylene	BQL	0.020	mg/L	01/20/95
Trichloroethylene	BQL	0.020	mg/L	01/20/95
Vinyl chloride	BQL	0.020	mg/L	01/20/95

BQL = Below Quantitation Limit

Connecticut Certified Laboratory Number: PH 0558

The above analyses were conducted in accordance with:

1. EPA Test Methods for the Evaluation of Solid Waste, SW-846, 3rd Edition, December, 1987


Gregory C. Lawrence
Laboratory Director

UNTY ENV.-LIVINGSTON
3
Rowe Road
Pontiac, IL 61764-0646

Location Collected:
Date Sample Collected: 01/11/1995
Sample Description: AKZ0-NOBLE COMPOSITE SAMPLE
EAS Sample Number: 9500223
Date Sample Received: 01/16/1995

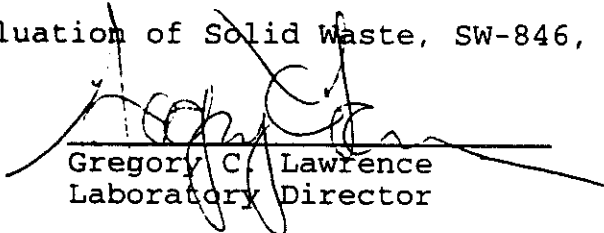
Parameter	Data	Quantitation Limit	Units	Analysis Date
Total Solids	75.	1.0	%	01/19/95
Cyanide, Reactive	BQL	5.0	mg/kg	01/18/95
Cyanide, Total	BQL	5.0	mg/kg	01/18/95
Ignitability	NEGATIVE			01/17/95
Flashpoint	>150.	30.	°C	01/17/95
Paint Filter Test	PASSES			01/17/95
pH	6.5			01/16/95
Phenols, Total	42.	2.0	mg/kg	01/18/95
Sulfide, Reactive	BQL	10.	mg/kg	01/23/95
Sulfide, Total	26.	10.	mg/kg	01/23/95
TCLP Extraction for Metals				01/18/95
Leachable Metals Digestion				01/23/95
Silver, TCLP Leachate	BQL	0.30	mg/L	01/23/95
Arsenic, TCLP Leachate	BQL	0.050	mg/L	01/23/95
Barium, TCLP Leachate	BQL	5.0	mg/L	01/23/95
Cadmium, TCLP Leachate	BQL	0.10	mg/L	01/23/95
Chromium, TCLP Leachate	BQL	0.40	mg/L	01/23/95
Mercury, TCLP Leachate	BQL	0.0050	mg/L	01/24/95
Lead, TCLP Leachate	BQL	0.60	mg/L	01/23/95
Selenium, TCLP Leachate	BQL	0.050	mg/L	01/23/95

BQL = Below Quantitation Limit

Connecticut Certified Laboratory Number: PH 0558

The above analyses were conducted in accordance with:

1. EPA Test Methods for the Evaluation of Solid Waste, SW-846, 3rd Edition, December, 1987


Gregory C. Lawrence
Laboratory Director



ENVIRONMENTAL MONITORING AND TECHNOLOGIES, INC.

8100 North Austin Avenue
Morton Grove, Illinois 60053-3203
708/967-6666
FAX: 708/967-6735

LABORATORY REPORT

107238-C

Akzo Chemicals. Inc.
8201 W. 47th Street
McCook, IL 60525

Report Date: 10/12/94
Sample Received: 10/6/94

Sample Description: Salt Cake + Filters
Sample No.: 96514

Ash content	5.54%
Open Cup Flash Point	>180°F
Paint Filter	Pass
Reactive Cyanide	<5.0
Reactive Sulfide	<10.0
Total Phenolics	<10.0
Total Solids	97.1%
pH (10% Solution)	9.39 (units)

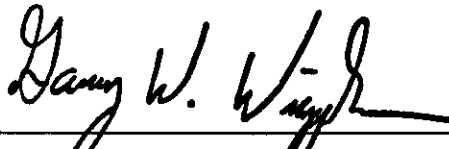
Analysis performed on TCLP extract

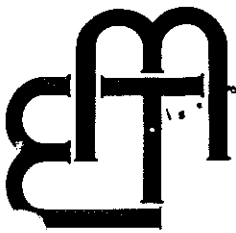
Arsenic	<0.200
Barium	<0.50
Cadmium	<0.02
Chromium	<0.10
Lead	<0.20
Mercury	<0.0100
Selenium	<0.200
Silver	<0.20

All results expressed as ppm unless otherwise indicated.

Methods performed according to SW-846, "Test Methods for Evaluating Solid Waste".

The contents of this report apply to the sample analyzed. No duplication of this report is allowed except its entirety.


LABORATORY DIRECTOR



ENVIRONMENTAL MONITORING AND TECHNOLOGIES, INC.

8100 North Austin Avenue
Morton Grove, Illinois 60053-3203
708/967-6666
FAX: 708/967-6735

LABORATORY REPORT

107238-A

Akzo Chemicals, Inc.
8201 W. 47th Street
McCook, IL 60525

Report Date: 10/10/94
Sample Received: 10/6/94

Sample Description: Salt Cake + Filters
Sample No.: 96514

	Concentration Found In		Method Detection Limit (MDL) ug/kg (ppb)	Quantitation Limit ug/kg (ppb)
	<u>Sample</u> (ppb)	<u>Blank</u> (ppb)		
PCB 1221	<150	<0.08	150	750
PCB 1232	<150	<0.08	150	750
PCB 1016 (1242)	<150	<0.08	150	750
PCB 1248	<150	<0.08	150	750
PCB 1254	<150	<0.08	150	1500
PCB 1260	<150	<0.08	150	1500
(Total PCB)	<150	<0.08	150	----

All results expressed as ppb unless otherwise indicated.

Methods performed according to SW-846, "Test Methods for Evaluating Solid Waste".

The contents of this report apply only to the sample analyzed. No duplication of this report is allowed except in its entirety.

Leah E. Zehner

LABORATORY DIRECTOR



ENVIRONMENTAL MONITORING AND TECHNOLOGIES, INC.

8100 North Austin Avenue
Morton Grove, Illinois 60053-3203
708/967-6666
FAX: 708/967-6735

LABORATORY REPORT

107238-B

Akzo Chemicals, Inc.
8201 W. 47th Street
McCook, IL 60525

Report Date: 10/11/94
Sample Received: 10/6/94

Sample Description: Salt Cake + Filters
Sample No.: 96514

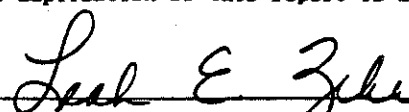
<u>Compounds</u>	<u>Concentration Found In</u>		<u>Adjusted Concentration</u>	<u>Method</u>	<u>Regulatory Limit</u>
	<u>Sample</u>	<u>Blank</u>		<u>Detection Limit (MDL)</u>	
1. Benzene	<0.25	<0.01	<0.25	0.01	0.50
2. Carbon Tetrachloride	<0.25	<0.01	<0.25	0.01	0.50
3. Chlorobenzene	<50.0	<0.01	<50.0	0.01	100.00
4. Chloroform	<3.0	<0.01	<3.0	0.01	6.00
5. o-Cresol	<100.0	<0.01	<100.0	0.01	200.00
6. m-Cresol	<100.0	<0.01	<100.0	0.01	200.00
7. p-Cresol	<100.0	<0.01	<100.0	0.01	200.00
Total Cresol	<100.0	<0.01	<100.0	0.01	200.00
8. 1,4-Dichlorobenzene	<3.75	<0.01	<3.75	0.01	7.50
9. 1,2-Dichloroethane	<0.25	<0.01	<0.25	0.01	0.50
10. 1,1-Dichloroethene	<0.35	<0.01	<0.35	0.01	0.700
11. 2,4-Dinitrotoluene	<0.07	<0.01	<0.07	0.01	0.13
12. Hexachlorobenzene	<0.07	<0.01	<0.07	0.01	0.13
13. Hexachloro-1,3-butadiene	<0.25	<0.01	<0.25	0.01	0.50
14. Hexachloroethane	<1.50	<0.01	<1.50	0.01	3.00
15. Methyl Ethyl Ketone	<100.0	<0.01	<100.0	0.01	200.00
16. Nitrobenzene	<1.00	<0.01	<1.00	0.01	2.00
17. Pentachlorophenol	<50.00	<0.01	<50.0	0.01	100.00
18. -Pyridine	<2.50	<0.01	<2.50	0.01	5.00
19. Tetrachloroethylene	<0.35	<0.01	<0.35	0.01	0.70
20. Trichloroethylene	<0.25	<0.01	<0.25	0.01	0.50
21. 2,4,5-Trichlorophenol	<200.00	<0.01	<200.00	0.01	400.00
22. 2,4,6-Trichlorophenol	<1.00	<0.01	<1.00	0.01	2.00
23. Vinyl Chloride	<0.10	<0.01	<0.10	0.01	0.20

All results expressed as ppm unless otherwise indicated.

Methods performed according to SW-846, "Test methods for Evaluating Solid Waste".

Analysis performed on Extract from TCLP.

The contents of this report apply only to the sample analyzed. No duplication of this report is allowed except in its entirety.


LABORATORY DIRECTOR



ENVIRONMENTAL MONITORING AND TECHNOLOGIES, INC.

8100 North Austin Avenue
Morton Grove, Illinois 60053-3203
708/967-6666
FAX: 708/967-6735

LABORATORY REPORT

107238

Akzo Chemicals, Inc.
8201 W. 47th Street
McCook, IL 60525

Report Date: 10/10/94
Sample Received: 10/6/94

Sample Description: Salt Cake + Filters

SOLVENTS UNDER GENERIC NUMBERS F001 F002 F003 F004 F005

	<u>Sample #96514</u>	<u>Blank</u>	<u>Detection Limit</u>
<i>F001</i> Tetrachloroethylene	<10	<0.005	0.005
Trichloroethylene	<10	<0.005	0.005
Methylene Chloride	<10	<0.005	0.005
1,1,1 - Trichloroethane	<10	<0.005	0.005
Carbon Tetrachloride	<10	<0.005	0.005
<i>F002</i> Tetrachloroethylene	<10	<0.005	0.005
Methylene Chloride	<10	<0.005	0.005
Trichloroethylene	<10	<0.005	0.005
1,1,1 - Trichloroethane	<10	<0.005	0.005
Chlorobenzene	<10	<0.005	0.005
1,1,2-Trichloro- 1,2,2 - Trifluoroethane	<10	<0.005	0.005
Ortho - Dichlorobenzene	<10	<0.005	0.005
Trichlorofluoromethane	<10	<0.005	0.005
1,1,2 - Trichloroethane	<10	<0.005	0.005
<i>F003</i> Xylenes	<10	<0.005	0.005
Acetone	<10	<0.005	0.005
Ethyl Acetate	<10	<0.005	0.005
Ethyl Benzene	<10	<0.005	0.005

All results expressed as ppm unless otherwise stated.


LABORATORY DIRECTOR



ENVIRONMENTAL MONITORING AND TECHNOLOGIES, INC.

8100 North Austin Avenue
Morton Grove, Illinois 60053-3203
708/967-6666
FAX: 708/967-6735

LABORATORY REPORT

107238

Akzo Chemicals, Inc.
8201 W. 47th Street
McCook, IL 60525

Report Date: 10/10/94
Sample Received: 10/6/94

Sample Description: Salt Cake + Filters

SOLVENTS UNDER GENERIC NUMBERS F001 F002 F003 F004 F005

	<u>Sample #96514</u>	<u>Blank</u>	<u>Detection Limit</u>
Ethyl Ether	<10	<0.005	0.005
Methyl Isobutyl Ketone	<10	<0.005	0.005
n-Butyl Alcohol	<10	<0.005	0.005
Cyclohexanone	<10	<0.005	0.005
Methanol	<10	<0.01	0.01
F004 Cresols or Cresylic Acid	<10	<0.005	0.005
Nitrobenzene	<10	<0.005	0.005
F005 Toluene	<10	<0.005	0.005
Methyl Ethyl Ketone	<10	<0.005	0.005
Carbon Disulfide	<10	<0.005	0.005
Isobutanol	<10	<0.005	0.005
Pyridine	<10	<0.005	0.005
2 - Ethoxyethanol	<10	<0.01	0.01
Benzene	<10	<0.005	0.005
2 - Nitropropane	<10	<0.005	0.005

All units expressed as ppm unless otherwise stated.

Methods performed according to SW-846 "Test Methods for Evaluating Solid Waste".

The contents of this report apply only to the sample analyzed. No duplication of this report is allowed except in its entirety.


LABORATORY DIRECTOR



CERTIFIED
RETURN RECEIPT
12/11/98

December 11, 1998

Illinois Emergency Management Agency
110 East Adams Street
Springfield, Illinois 62701-9963

Subject: Incident No. 982992
Akzo Nobel Chemicals Inc.
8201 W. 47th Street
McCook, Illinois 60525

Date of Incident:	December 5, 1998
Material Released:	Methyl Chloride
CAS No.:	74-87-3
Quantity Released:	Approximately 770 pounds to the atmosphere
Reportable Quantity:	100 lbs.
Time of Release/Duration:	6:00 A.M./Approximately 50 minutes
Extremely Hazardous Substance?:	No

Description of Incident: At approximately 6:00 A.M. the Arquad reactor operator noticed that the reactor agitator seal was leaking. The operator called his supervisor and proceeded to transfer the product from the leaking reactor to a storage tank. The product emissions were then vented from the storage tank to the existing control system per standard operating procedure. The operations and maintenance managers were called and they came to the plant to review what had happened and determine the amount of the release. All of the relevant information for the product which was being produced was gathered, and the amount of the release was calculated by mass balance to be a reportable quantity.

No employees onsite were injured or affected by the release. Based on the dispersion modeling performed using a "SAFER" system model, Akzo Nobel Chemicals does not believe that the surrounding community was affected nor do we believe that the health or well being of any party onsite or offsite was endangered by the release.

To our knowledge there are no known or anticipated acute or chronic health risks associated with this release.

The Illinois EMA was notified at 12:00 p.m. and assigned Incident No. 982992. The Cook County EMA was notified immediately afterward at 12:15 p.m. The National Response Center was notified of the release at 12:20 p.m. and assigned Incident No. 466455.

If you have any questions regarding this release, please contact me at 708-447-7990.

Sincerely,
Akzo Nobel Chemicals Inc.


George E. Yanku
Environmental Services Manager

cc: Cook County Emergency Management Agency
Village of McCook Fire Department

Akzo Nobel Chemicals Inc.
8201 West 47th Street
P.O. Box 1569
McCook, Illinois 60525-1569
Tel. (708) 447 7990
Fax (708) 447 3270

LESSON PLAN
RCRA Training Outline

I. RCRA - Hazardous Waste Training

- A. Resource Conservation and Recovery Act
 - 1. Origin
 - 2. Purpose
 - 3. Requirements
- B. Hazardous Waste
 - 1. Definition
 - 2. Types
 - 3. Waste Storage
- C. Contingency Plan
 - 1. Fires
 - 2. Spills
 - 3. Emergency Coordinators
 - 4. Alarm System

II. RCRA - Incident Response

- A. Examples
 - 1. Gasoline Spill
 - 2. Solvent Spill
- B. Hazardous Waste Fires
 - 1. Types
 - 2. Fire Response
 - 3. Explosions
- C. Hazardous Waste Spills
 - 1. Identification
 - 2. Spill Control

- PREPARED BY P. BOHLANDER, 1295
- USCO VIDEOTAPE FOR CLASS S.R.W.

Employee Name:

Donnie L. Taylor

03/23/1999

12:56:27

LAST 12
MONTHS

Course ID

Date

Hours

Comments:

NE SAFETY

08/13/1998

0.30

Amine Burns

CONTINGENCY PLAN

05/13/1998

0.20

Headcount drill & retraining

DOT - AWARENESS

11/05/1998

0.50

Video "Handling Hazardous Materials Safely"

ENVIRONMENTAL

06/29/1998

0.50

Storm Water, Just passing through

EO-HAZCOM

05/19/1998

0.50

May Monthly Safety Meeting

FALL PROTECTION

05/19/1998

0.50

May Monthly Safety Meeting

HAZCOM

04/09/1998

0.10

Ethanol

HAZCOM

07/16/1998

0.20

Sulfuric Acid or Sodium Hydroxide

HAZCOM

08/13/1998

0.30

DMPA

HAZCOM

11/05/1998

0.10

IPA

HAZWOP-AWARENESS

04/09/1998

1.00

Hazwoper Awareness

HAZWOP-OPER-AKZO

10/13/1998

2.00

Includes E.R. Storage, Help for Techs, 1-hr Air Packs,

METHYL CHLORIDE

06/29/1998

0.20

Hazcom

MTQ MISC

03/25/1998

1.00

Customer Survey

MTQ MISC

10/23/1998

2.00

Quality day, Goals, Methodology, EOS, Awareness.

MTSP

12/10/1998

0.30

December Monthly Safety Meeting

PPE

06/29/1998

0.20

Helmets

PPE

07/16/1998

0.10

Safety Glasses with side shields

PPE

08/13/1998

0.30

Safety Shoes

PROPYLENE OXIDE

12/10/1998

0.20

December Monthly Safety Meeting

RCRA

11/05/1998

0.40

Includes Quiz

SPCC

12/10/1998

0.50

December Monthly Safety Meeting

VIOLENCE

07/16/1998

0.30

Workplace Violence - Report It!

Summary

Attendance: 23

Employee Name: Cliff Barr

03/23/1999

13:23:39

Course ID	Date	Hours	Comments:
-----	-----	-----	-----
AV	03/02/1994	1.00	
FRONTLINE-CS10	03/15/1994	4.00	
FRONTLINE-CS20	03/15/1994	4.00	
FRONTLINE-CS30	03/29/1994	4.00	
FRONTLINE-CS40	03/29/1994	4.00	
FRONTLINE-CS50	04/05/1994	4.00	
FRONTLINE-CS60	04/05/1994	4.00	
DFW	06/27/1994	1.00	
RCRA	10/17/1994	1.00	
29-120 AWARE	10/18/1994	4.00	
IL WORKSHOP	12/08/1994	8.00	
PROJ MANGMT	01/18/1995	16.00	
MTQ INITIAL	02/07/1995	16.00	
401K	05/04/1995	1.00	EXPLANATION OF BENEFIT CHANGES
MBTC	07/18/1995	8.00	INTERMEDIATE WINDOWS
RCRA	09/15/1995	1.00	ANNUAL REFRESHER TRAINING
SSMT	10/13/1995	1.80	
29-120 AWARE	11/09/1995	3.50	REFRESHER TRAINING FIRST RESPONDER AWARENESS LEVEL
29-146	01/29/1996	1.00	
375 ENV	02/08/1996	16.00	
29-119	02/13/1996	0.50	
29-157	02/13/1996	0.50	
PSI VES DESIGN	02/21/1996	3.00	
HAZOP	03/12/1996	16.00	
ANHIC	03/13/1996	16.00	
MBTC	06/12/1996	8.00	EXCEL COMPUTER CLASS
ORIENTATION	09/24/1996	72.00	
CONTINGENCY PLAN	12/02/1996	2.00	HAZARDOUS COMMUNICATION
SAFETY MEETING	02/19/1997	1.00	Minutes of the McCook Central Safety Committee

Employee Name: Cliff Barr

03/23/1999

13:23:40

Course ID	Date	Hours	Comments:
-----	-----	-----	-----
	03/20/1997	2.00	PRODUCTION OVERVIEW - SUPERVISORS
SAP	03/31/1997	4.00	PURCHASE REQUISITIONS II
SAP	04/01/1997	8.00	PRODUCTION ORDER MANAGEMENT
POSITION	04/24/1997	16.00	Risk Management Plan training.
FORM 43	06/26/1997	0.20	MONTHLY SAFETY MEETING (SAFETY PERMITS)
HOTWORK	06/26/1997	0.20	MONTHLY SAFETY MEETING (SAFETY PERMITS)
ISO-REVIEW-VARYS	06/26/1997	0.10	MONTHLY SAFETY MEETING (SAFETY PERMITS)
LOCK-OUT/TAG-OUT	06/26/1997	0.20	MONTHLY SAFETY MEETING (SAFETY PERMITS)
SEXUAL HARASS	10/14/1997	1.25	
POSITION	10/27/1997	1.00	RAP.
CONTINGENCY PLAN	11/04/1997	1.00	REVISION TEAM MEMBERS
HAZCOM	12/12/1997	1.00	December Plant Safety Meeting
ACCESS / RECORDS	01/30/1998	0.25	January Plant-Wide Safety
AWARENESS	03/17/1998	0.75	Office Safet - 1Q'98
BENZYL CHLORIDE	03/19/1998	0.25	March Safety Mtg.
FORM 43	03/19/1998	0.50	March Safety Mtg.
MTQ MISC	03/25/1998	1.00	Customer Survey
HAZCOM	04/09/1998	0.10	Ethanol
HAZWOP-AWARENESS	04/09/1998	1.00	Hazwoper Awareness
CONTINGENCY PLAN	05/13/1998	0.20	Headcount drill & retraining
CONTINGENCY PLAN	06/23/1998	0.30	Office Safety - 2nd Quarter '98
MTQ MISC	06/23/1998	16.00	Facilitator Seminar, Pheasant Run, Illinois.
CONTINGENCY PLAN	07/08/1998	1.50	Simulated DMAPA Leak
HAZCOM	07/16/1998	0.20	Sulfuric Acid or Sodium Hydroxide
PPE	07/16/1998	0.10	Safety Glasses with side shields
VIOLENCE	07/16/1998	0.30	Workplace Violence - Report It!
POSITION	08/19/1998	14.00	Behavior-Based Safety Seminar, Denver, Colorado. See
AMINE SAFETY	09/02/1998	0.30	Amine Burns
HAZCOM	09/02/1998	0.30	DMAPA

Employee Name: Cliff Barr

03/23/1999

13:23:40

Course ID	Date	Hours	Comments:
IRONMENTAL	09/10/1998	0.10	SARA Report
HAZCOM	09/10/1998	0.20	Acetic Acid
PPE	09/10/1998	0.20	Gloves
SFA/CPR	09/10/1998	1.00	Video & Quiz
MTQ MISC	10/23/1998	2.00	Quality day, Goals, Methodology, EOS, Awareness.
DOT - AWARENESS	11/05/1998	0.50	Video "Handling Hazardous Materials Safely"
HAZCOM	11/05/1998	0.10	IPA
RCRA	11/05/1998	0.40	Includes Quiz
SAP	12/01/1998	3.50	McCook SAP Plant Maintenance Training Schedule
MTSP	12/10/1998	0.30	December Monthly Safety Meeting
PROPYLENE OXIDE	12/10/1998	0.20	December Monthly Safety Meeting
SPCC	12/10/1998	0.50	December Monthly Safety Meeting

Summary Attendance: 70

I.A. Plant Information

Operator: Akzo Nobel Chemicals Inc., McCook Plant
8201 W. 47th Street
McCook, Illinois 60525

Owner: Akzo Nobel Chemicals Inc.
300 South Riverside Plaza
Chicago, Illinois 60606

Facility Contact: Cliff Barr, Plant Manager
Company Phone Number: 1 (708) 447-7990

I.B. Emergency Contact Personnel

The Shift Supervisor will act as the temporary Emergency Coordinator until one of the following persons is at the emergency site. The first listed person on the scene will then assume responsibility until an individual listed above him is present.

Primary Emergency Coordinator:
C. Barr - Plant Manager
528 Gateshead Drive, Naperville IL 60565

Work Telephone Number: 1(708) 447-7990 ext.211
Home Phone Number: 1(630) 527-0528 (or 0559)
24-Hour Emergency telephone number 1(708) 447-7990

Temporary Emergency Coordinators:
J. Hoffman- Operations Manager
639 Salem Circle, Oswego, IL 60543
1(630) 554-5285
Work Telephone Number: 1(708) 447-7990 ext.265

J. Duranty — Maintenance Manager
8130 Gatewood Ln, Woodridge, IL 60517
1(630) 985-2278
Work Telephone Number: 1(708) 447-7990 ext.202

D. Kusek — Safety Supervisor
12307 Lakeview, Orland Park, IL 60462
1(708) 301-3155
Work Telephone Number: 1(708) 447-7990 ext.222

I.C. Description of Business

Standard Industrial Classification Number: 2869
North American Industry Classification Number: 325119

Applicable Pretreatment Requirements: Categorical pretreatment standards as defined in 40 CFR 414.75 and 414.85

Hours of Operation: 7 days, 3 Shifts, 24 hours a day operation



217/782-6762

JANUARY 22, 1993
APPLICATION RECEIVED: 10/30/92
PERMIT ISSUED TO:

WASTE STREAM/AUTHORIZATION NUMBER 924696
PERMIT EXPIRES: 01/20/98

ENVIRITE CORP
P.O. BOX 646
PONTIAC

IL
61764

ENVIRITE CORP
P.O. BOX 646
PONTIAC

IL
61764

WASTE NAME: COMPOSITE SOLIDS
WASTE CLASS: 80 NON-HAZ NOT SUBJECT TO FE

PERMIT TO RECEIVE THE INDICATED WASTE IS GRANTED.

RECEIVING FACILITY NAME: LIVINGSTON LANDFILL
IEPA FACILITY NO.: 1058210002

DISPOSITION OF WASTE: 25
BULK OR CONTAINERIZED MIXED WITH DAILY REFUSE

WASTE TREATMENT:

STORAGE:

ATTENTION: PHILIP BOHLANDER
WASTE GENERATOR: AKZO CHEMICALS INC
8201 W 47TH ST
MCCOOK

IEPA GENERATOR NO.: 0311740004

IL
60525

THIS PERMIT IS GRANTED SUBJECT TO THE ATTACHED STANDARD CONDITIONS AND ANY SPECIAL CONDITIONS LISTED BELOW.

1. IN ISSUING PERMIT NO. 924696, THE AGENCY HAS RELIED ON A STATEMENT BY THE OPERATOR OF THIS FACILITY IN AN LPC-PA15 FORM RECEIVED 03/18/91 THAT A DEMONSTRATION SHALL BE MADE THAT A UNIT OR UNITS WITHIN THIS FACILITY EITHER DO OR WILL MEET THE STANDARDS DESCRIBED IN 35 ILL. ADM. CODE, PART 814, SUBPART C.

IN THE EVENT THAT SUCH A DEMONSTRATION IS NOT MADE, THE AGENCY MAY SEEK REVOCATION OF THIS PERMIT PURSUANT TO 35 ILL. ADM. CODE, SECTION 807.212 AND/OR MAY INITIATE ENFORCEMENT ACTION. THE OBJECTIVES OF SUCH ENFORCEMENT ACTION MAY INCLUDE EXHUMATION OF ALL WASTE DISPOSED UNDER THIS PERMIT.

THIS SPECIAL WASTE MAY ONLY BE DISPOSED IN UNITS WHICH MEET THE REQUIREMENTS OF 35 ILL. ADM. CODE PART 814.



PAGE: 2

JANUARY 22, 1993
APPLICATION RECEIVED: 10/30/92

WASTE, STREAM/AUTHORIZATION NUMBER 924696
PERMIT EXPIRES: 01/20/98

KES
LWE:KES
CC:AKZO CHEMICALS INC
REGION: SPRINGFIELD

Lawrence W. Easter
LAWRENCE W. EASTER, P.E.
MANAGER, PERMIT SECTION
DIVISION OF LAND POLLUTION CONTROL



217/782-6762

JANUARY 22, 1993

WASTE (STREAM)/AUTHORIZATION NUMBER 924695

APPLICATION RECEIVED: 10/30/92

PERMIT EXPIRES: 01/20/98

PERMIT ISSUED TO:

ENVIRITE CORP
P.O. BOX 646
PONTIAC

IL
61764

ENVIRITE CORP
P.O. BOX 646
PONTIAC

IL
61764

WASTE NAME: SALT CAKE AND FILTERS
WASTE CLASS 80 NON-HAZ NOT SUBJECT TO FEE

PERMIT TO RECEIVE THE INDICATED WASTE IS GRANTED.

RECEIVING FACILITY NAME: LIVINGSTON LANDFILL
IEPA FACILITY NO.: 1058210002

DISPOSITION OF WASTE: 25
BULK OR CONTAINERIZED MIXED WITH DAILY REFUSE

WASTE TREATMENT:

STORAGE:

ATTENTION: PHILIP BOHLANDER
WASTE GENERATOR: AKZO CHEMICALS INC
8201 W 47TH ST
MCCOOK

IEPA GENERATOR NO.: 0311740004

IL
60525

THIS PERMIT IS GRANTED SUBJECT TO THE ATTACHED STANDARD CONDITIONS AND ANY SPECIAL CONDITIONS LISTED BELOW.

1. IN ISSUING PERMIT NO. 924695, THE AGENCY HAS RELIED ON A STATEMENT BY THE OPERATOR OF THIS FACILITY IN AN LPC-PA15 FORM RECEIVED 03/18/91 THAT A DEMONSTRATION SHALL BE MADE THAT A UNIT OR UNITS WITHIN THIS FACILITY EITHER DO OR WILL MEET THE STANDARDS DESCRIBED IN 35 ILL. ADM. CODE, PART 814, SUBPART C.

IN THE EVENT THAT SUCH A DEMONSTRATION IS NOT MADE, THE AGENCY MAY SEEK REVOCATION OF THIS PERMIT PURSUANT TO 35 ILL. ADM. CODE, SECTION 807.212 AND/OR MAY INITIATE ENFORCEMENT ACTION. THE OBJECTIVES OF SUCH ENFORCEMENT ACTION MAY INCLUDE EXHUMATION OF ALL WASTE DISPOSED UNDER THIS PERMIT.

THIS SPECIAL WASTE MAY ONLY BE DISPOSED IN UNITS WHICH MEET THE REQUIREMENTS OF 35 ILL. ADM. CODE PART 814.



Best Standby
Best Denis
10g. J.
3dg. John Reg-



State of Illinois

ENVIRONMENTAL PROTECTION AGENCY

Mary A. Gade, Director

2200 Churchill Road, Springfield, IL 62794-9276

217/782-6762

APRIL 24, 1993

WASTE STREAM/AUTHORIZATION NUMBER 931766

APPLICATION RECEIVED: 03/18/93

PERMIT EXPIRES: 04/21/98

PERMIT ISSUED TO:

ENVIRITE CORP
P.O. BOX 646
PONTIAC

, IL
61764

ENVIRITE CORP
P.O. BOX 646
PONTIAC

, IL
61764

WASTE NAME: WFE BOTTOMS

WASTE CLASS 60 NON-HAZ NOT SUBJECT TO FEE

PERMIT TO RECEIVE THE INDICATED WASTE IS GRANTED.

RECEIVING FACILITY NAME: LIVINGSTON LANDFILL

IEPA FACILITY NO.: 1058210002

DISPOSITION OF WASTE: 25

BULK OR CONTAINERIZED MIXED WITH DAILY REFUSE

WASTE TREATMENT:

STORAGE:

ATTENTION: WALTER DIDM

IEPA GENERATOR NO.: 0311740004

WASTE GENERATOR: AKZO CHEMICALS INC
8201 W 47TH ST
MCCOOK

IL
60525

THIS PERMIT IS GRANTED SUBJECT TO THE ATTACHED STANDARD CONDITIONS AND ANY SPECIAL CONDITIONS LISTED BELOW.

1. IN ISSUING PERMIT NO. 931766, THE AGENCY HAS RELIED ON A STATEMENT BY THE OPERATOR OF THIS FACILITY IN AN LPC-PA15 FORM RECEIVED 03/18/91 THAT A DEMONSTRATION SHALL BE MADE THAT A UNIT OR UNITS WITHIN THIS FACILITY EITHER DO OR WILL MEET THE STANDARDS DESCRIBED IN 35 ILL. ADM. CODE, PART 814, SUBPART C.

IN THE EVENT THAT SUCH A DEMONSTRATION IS NOT MADE, THE AGENCY MAY SEEK REVOCATION OF THIS PERMIT PURSUANT TO 35 ILL. ADM. CODE, SECTION 807.212 AND/OR MAY INITIATE ENFORCEMENT ACTION. THE OBJECTIVES OF SUCH ENFORCEMENT ACTION MAY INCLUDE EXHUMATION OF ALL WASTE DISPOSED UNDER THIS PERMIT.

THIS SPECIAL WASTE MAY ONLY BE DISPOSED IN UNITS WHICH MEET THE REQUIREMENTS OF 35 ILL. ADM. CODE PART 814.



State of Illinois

ENVIRONMENTAL PROTECTION AGENCY

Mary A. Gade, Director

2200 Churchill Road, Springfield, IL 62794-9276

PAGE: 2

APRIL 24, 1993

WASTE STREAM/AUTHORIZATION NUMBER 951768

APPLICATION RECEIVED: 03/18/93

PERMIT EXPIRES: 04/21/95

Lawrence W. Eastep /WES

LWE:CH

CC:AKIO CHEMICALS INC

REGION: CHAMPAIGN

LAWRENCE W. EASTEP, P.E.

MANAGER, PERMIT SECTION

DIVISION OF LAND POLLUTION CONTROL



217/782-6762

Refer to: 0311740004 -- Cook County
McCook/Alzo Chemie America
IL0057833042
Log No. C-101
Compliance File

January 14, 1967


M.R. Tehrani
Alzo Chemie America
300 South Wacker Drive
Chicago, IL 60606

Dear Mr. Tehrani:

The Agency is in receipt of your December 22, 1966 response(s) to our December 17, 1966 Compliance Inquiry Letter. Your response(s) has been reviewed and the apparent violation(s) of Section(s) 726.215 is now considered resolved.

If you have any questions, please contact Robert Carson at 217/782-6762.

Sincerely,


Harry A. Coappel, P.E., Acting Manager
Facilities Compliance Unit
Compliance Monitoring Section
Division of Land Pollution Control

HAC:RT:st:1214g/2

cc: Division File
Northern Region
Robert Carson
Ruth Allen
USEPA-Rory Murphy ✓

RECEIVED
JAN 20 1967
SOLID WASTE DIVISION
U.S. EPA REGION IV



217/782-6762

Refer to: 0311740004 -- Cook County
McCook/Akzo Chemie America
ILD057833642
Log No. C-101
Compliance File

COMPLIANCE INQUIRY LETTER

Certified # P594 561 492

December 17, 1986

M. R. Tehrani
Akzo Chemie America
300 South Wacker Drive
Chicago, Illinois 60606

Dear Ms. Tehrani:

The purpose of this letter is to address the status of the above-referenced facility in relation to the requirements of 35 Ill. Adm. Code, Part 725 and to inquire as to your position with respect to the apparent violations identified in Attachment A and your plans to correct these apparent violations. The Agency's findings of apparent non-compliance listed in Attachment A are based on a November 26, 1986 review of documents submitted to the Agency to demonstrate compliance with the requirements of 35 Ill. Adm. Code, Part 725, Subpart G.

Please resubmit for approval within fifteen (15) calendar days of the date of this letter your closure certification. This document should be sent to the following:

Harry A Chappel, P.E., Acting Manager
Facilities Compliance Unit
Compliance Monitoring Section
Illinois Environmental Protection Agency
Division of Land Pollution Control
2200 Churchill Road
Post Office Box 19276
Springfield, Illinois 62794-9276

Until your facility is formally closed, you remain subject to all applicable requirements of 35 Ill. Adm. Code, Part 725, Subpart H.

RECEIVED
DEC 22 1986
SOLID WASTE DIVISION
U.S. EPA REGION V




Page 2

Further, take notice that because some or all of the apparent violations cited constitute high priority violations (HPVs), in accordance with the USEPA Enforcement Response Policy this matter is being referred to USEPA Region 5 or the Illinois Attorney General's Office to seek assessment of a penalty pursuant to either the Illinois Environmental Protection Act, Ill. Rev. Stat., Ch. 111 1/2, Sec. 1001 et seq. or the federal Resource Conservation and Recovery Act (RCRA), 42 U.S.C. Sec. 6901 et seq.

Akzo Chemie's January 31, 1986 certification of closure was returned without action on March 24, 1986 because it was incomplete. Additional information was submitted to the Agency, but it did not include the certifications required by 35 Ill. Adm. Code, Section 725.215. This deficiency was discussed with you during your November 26, 1986 telephone conversation with Bob Carson.

If you have any questions regarding the above, please contact Bob Carson at 217/782-6762.

Sincerely,


Harry A. Chappel, P.E., Acting Manager
Facilities Compliance Unit
Compliance Monitoring Section
Division of Land Pollution Control

^{RAC}
HAC:RAC:rd1028g/44-45

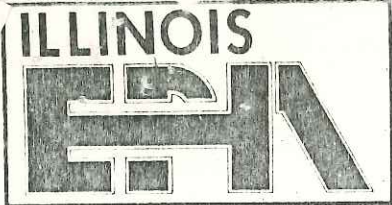
^{OR}
cc: Division File
Maywood Region
Ruth Allen
USEPA -- Mary Murphy ✓
Bob Carson



Attachment A

1. Pursuant to 35 Ill. Adm. Code 725.215, when closure is completed, the owner or operator must submit to the Director certification both by the owner or operator and by an independent registered professional engineer that the facility has been closed in accordance with the specifications in the approved closure plan. You are in apparent violation of this Section for the following reason: You failed to submit certification of closure 30 days after the final closure date indicated in your approved closure plan.

RAC:rd1028g/46



Environmental Protection Agency

1701 S. First Street Maywood, IL. 60153

312/345-9780

Refer to: Cook County - 03117404 - McCook/Armak Industrial Chemicals Div.
ILD057833642

January 8, 1982

Armak Industrial Chemicals Division
8201 W. 47th Street
McCook, Illinois 60525

Attn: Mr. Robert Brandolino

Dear Mr. Brandolino:

An inspection of the above facility was conducted by a representative of the Illinois Environmental Protection Agency (IEPA) on August 21, 1981. The inspection was conducted under the authorization of the United States Environmental Protection Agency (USEPA). A copy of the inspection report is enclosed. The purpose of the inspection was to determine your facility's compliance status with the Resource Conservation and Recovery Act (RCRA) as amended. We are pleased to report that your facility was found to be in compliance.

Your cooperation and efforts in this matter are appreciated. Should you have any questions about the report, please contact Mary Schroeder at the above number.

Sincerely,

Kenneth P. Bechely, Northern Region Manager
Field Operations Section
Division of Land/Noise Pollution Control

KPB:MWS:prb

Enclosure: Inspection Report

cc: Division File
Northern Region
U.S. E.P.A. - Region V

03117404

ILD057833642

RCRA INSPECTION REPORT - INTERIM STATUS STANDARDS
TREATMENT, STORAGE, AND DISPOSAL FACILITIES
Form A - General Facility Standards

I. General Information:

- (A) Facility Name: ARMAK INDUSTRIAL CHEMICALS DIVISION
(B) Street: 8201 WEST 47TH STREET
(C) City: MCCOOK (D) State: ILLINOIS (E) Zip Code: 60552
(F) Phone: (312) 447-7990 (G) County: COOK
(H) Operator: ROBERT BRANDOLINO - PLANT MANAGER
(I) Street: 8201 WEST 47TH STREET
(J) City: MCCOOK (K) State: ILLINOIS (L) Zip Code: 60552
(M) Phone: (312) 447-7990 (N) County: COOK
(O) Owner: ARMAK COMPANY
(P) Street: 300 SOUTH WACKER DRIVE
(Q) City: CHICAGO (R) State: ILLINOIS (S) Zip Code: 60660
(T) Phone: (312) 786-0400 (U) County: COOK
(V) Date of Inspection: 8-21-81 (W) Time of Inspection (From) 9:30 A (To) 11:0
(X) Weather Conditions: CLEAR 70° F

Company has been copied

(Y) Person(s) Interviewed

Title

Telephone

JACK McVAUGH

MGR. ENV. AFFAIRS (312) 786-0400

ROBERT BRANDOLINO

PLANT MANAGER (312) 447-7990

RICH HANZLIK

ENV. ENG. (312) 447-7990

(Z) Inspection Participants

NORMAN GORDON

MGR. PLANT ENG. (312) 447-7990
Agency/Title Telephone

MARY SCHROEDER

TEPA/ EPS II (312) 345-9780

JOHN WALLER

PDI/ (202) 554-1766

(AA) Preparer Information

Name

Mary Schraeder

Agency/Title

TEPA/ EPS II

Telephone

(312) 345-9780

II. SITE ACTIVITY:

Complete sections I through VII for all treatment, storage, and/or disposal facilities. Complete the forms (in parenthesis) in section VIII corresponding to the site activities identified below:

☒ A. Storage and/or Treatment

☒ 1. Containers (I)

2. Tanks (J)

3. Surface Impoundments (K)

4. Waste Piles (L)

☐ D. Incineration and/or Thermal Treatment
(O and P)

☐ E. Chemical, Physical, and Biological
Treatment (Q)

☐ B. Land Treatment (M)

☐ C. Landfills (N)

Note: If facility is also a generator or transporter of hazardous waste complete section IX and X of this form as appropriate.

III. GENERAL FACILITY STANDARDS:
(Part 265 Subpart B)

	Yes	No	NI*	Remark
(A) Has the Regional Administrator been notified regarding:				
1. Receipt of hazardous waste from a foreign source?	—	—	N/A	
2. Facility expansion?	—	—	N/A	
(B) General Waste Analysis:				
1. Has the owner or operator obtained a detailed chemical and physical analysis of the waste?	X	—	—	
2. Does the owner or operator have a detailed waste analysis plan on file at the facility?	X	—	—	INCLUDED SAMPLING PROCEDURES AS WE AS SAFETY EQUIPMENT TO BE WORN
3. Does the waste analysis plan specify procedures for inspection and analysis of each movement of hazardous waste from off-site?	—	—	N/A	RECEIVE NO WASTES FROM OFF SITE
(C) Security - Do security measures include: (if applicable)				
1. 24-Hour surveillance?	X	—	—	
2. Artificial or natural barrier around facility?	X	—	—	FENCED COMPLETELY
3. Controlled entry?	X	—	—	
4. Danger sign(s) at entrance?	X	—	—	
(D) Do Owner or Operator Inspections Include:				
1. Records of malfunctions?	X	—	—	ALSO INSPECT CONDITIONS OF DRUMS, SIGNS, DOORS, SAFETY EQUIPMENT ALSO NUMBER OF DRUMS AND EVIDENCE OF TRESPASSERS
2. Records of operator error?	X	—	—	
3. Records of discharges?	X	—	—	

*Not Inspected

III. GENERAL FACILITY STANDARDS - Continued

	Yes	No	NI*	Remarks
4. Inspection schedule?	X	---	---	INDICATES AT LEAST WEEKLY BUT DONE MORE FREQUENTLY
5. Safety, emergency equipment?	X	---	---	-----
6. Security devices?	X	---	---	-----
7. Operating and structural devices?	X	---	---	-----
8. Inspection log?	X	---	---	MAINTAINED SINCE 1-81
(E) Do personnel training records include: (Effective 5/19/81)				
1. Job titles?	X	---	---	JOB TITLES AND JOB DESCRIPTIONS ARE KEPT SEPERATE
2. Job descriptions?	X	---	---	FROM RCRA RECORDS
3. Description of training?	X	---	---	RCRA OVERVIEW AS WELL AS PROCEDURES EQUIPMENT AND SAFETY.
4. Records of training?	X	---	---	-----
5. Have facility personnel received required training by 5-19-81?	X	---	---	STARTED A COURSE DESIGNED SPECIFICALLY FOR RCRA
6. Do new personnel receive required training within six months?	---	---	N/A	HAVE HAD NO NEW PEOPLE SINCE 3-80 BUT INDICATE NEW PERSONS WOULD BE TRAINED IN THE ALLOTTED TIME.
(F) If required are the following special requirements for ignitable, reactive, or incompatible wastes addressed?				
1. Special handling?	---	---	N/A	WASTE NEITHER IGNITABLE, REACTIVE OR INCOMPATIBLE.
2. No smoking signs?	---	---	N/A	-----
3. Separation and protection from ignition sources?	---	---	N/A	-----

*Not Inspected

IV. PREPAREDNESS AND PREVENTION:
(Part 265 Subpart C)

(A) Maintenance and Operation of Facility:

Is there any evidence of fire, explosion, or release of hazardous waste or hazardous waste constituent?

Yes No NI* Remarks

— X —

WASTE MATERIAL IS STORED IN DRUMS IN A SMALL BL USED FOR WASTE STO EXCLUSIVELY. HAVE PHO IN NEAR BY BLDGS.

(B) If required, does the facility have the following equipment:

1. Internal communications or alarm systems?

— — N/A

2. Telephone or 2-way radios at the scene of operations?

X — —

3. Portable fire extinguishers, fire control, spill control equipment and decontamination equipment?

X — —

Indicate the volume of water and/or foam available for fire control:

SPRINKLER SYSTEM, MONITOR SYSTEM, HYDRANTS WITHIN THE SITE. SERVED BY MCCOOK FIRE DEPT.

(C) Testing and Maintenance of Emergency Equipment:

1. Has the owner or operator established testing and maintenance procedures for emergency equipment?

X — —

TESTED EITHER MONTHLY OR EVER TWO WEEKS.

2. Is emergency equipment maintained in operable conditions?

X — —

(D) Has owner or operator provided immediate access to internal alarms? (if needed)

— — N/A

*Not Inspected

(E) Is there adequate aisle space for unobstructed movement?

X

V. CONTINGENCY PLAN AND EMERGENCY PROCEDURES:
(Part 265 Subpart D)

(A) Does the Contingency Plan contain the following information:

Yes No NI*

Remarks

1. The actions facility personnel must take to comply with §265.51 and 265.56 in response to fires, explosions, or any unplanned release of hazardous waste? (If the owner has a Spill Prevention, Control, and Counter-measures (SPCC) Plan, he needs only to amend that plan to incorporate hazardous waste management provisions that are sufficient to comply with the requirements of this Part (as applicable.)
2. Arrangements agreed by local police departments, fire departments hospitals, contractors, and State and local emergency response teams to coordinate emergency services pursuant to §265.37?
3. Names, addresses, and phone numbers (office and home) of all persons qualified to act as emergency coordinators?
4. A list of all emergency equipment at the facility which includes the location and physical description of each item on the list and a brief outline of its capabilities?
5. An evacuation plan for facility personnel where there is a possibility that evacuation could be necessary? (This plan must describe signal(s) to be used to begin evacuation, evacuation routes, and alternate evacuation routes?)

X

X

X

X

X

INCLUDE LOGGING OF
EVENTS, DUTIES OF
THE EMER. COORDINATOR
DURING AND AFTER

MATERIALS LIST

ALSO INDICATES THAT
USEPA AND IEPA
ARE TO BE NOTIFIED
BEFORE RESUMPTION
OF NORMAL ACTIVITIES

INCLUDING EQUIPMENT
AND PROCEDURES
NOT MERELY THE
ROUTES.

V. CONTINGENCY PLAN AND EMERGENCY PROCEDURES - Continued

	Yes	No	NI*	Remarks
(B) Are copies of the Contingency Plan available at site and local emergency organizations?	<u>X</u>	—	—	LOCAL AUTHORITIES HAVE PRELIMINARY COPY WORKING TO ARRANGE A MEETING BETWEEN MCCOOK ENVIR. BOARD CITY POLICE & FIRE DEPT.
(C) Emergency Coordinator				
1. Is the facility Emergency Coordinator identified?	<u>X</u>	—	—	
2. Is coordinator familiar with all aspects of site operation and emergency procedures?	<u>X</u>	—	—	
3. Does the Emergency Coordinator have the authority to carry out the Contingency Plan?	<u>X</u>	—	—	
(D) Emergency Procedures				
If an emergency situation has occurred at this facility, has the Emergency Coordinator followed the emergency procedures listed in 265.56?	—	—	<u>N/A</u>	

VI. MANIFEST SYSTEM, RECORDKEEPING, AND REPORTING

(Part 265 Subpart E)

	Yes	No	NI*	Remarks
(A) Use of Manifest System				
1. Does the facility follow the procedures listed in §265.71 for processing each manifest?	—	—	<u>N/A</u>	DO NOT MANIFEST MATERIALS FROM OFF SITE
2. Are records of past shipments retained for 3 years?	—	—	<u>N/A</u>	
(B) Does the owner or operator meet requirements regarding manifest discrepancies?	—	—	<u>N/A</u>	

*Not Inspected

(C) Operating Record

1. Does the owner or operator maintain an operating record as required in 265.73?

X

2. Does the operating record contain the following information:

- **b. The method(s) and date(s) of each waste's treatment, storage, or disposal as required in Appendix I?

X

INDICATED WILL
INCORPORATE

- c. The location and quantity of each hazardous waste within the facility?

X

- ***d. A map or diagram of each cell or disposal area showing the location and quantity of each hazardous waste? (This information should be cross-referenced to specific manifest number, if waste was accompanied by a manifest.)

N/A

- e. Records and results of all waste analyses, trial tests, monitoring data, and operator inspections?

X

- f. Reports detailing all incidents that required implementation of the Contingency Plan?

N/A

- g. All closure and post closure costs as applicable? (Effective 5-19-81)

X

** See page 33252 of the May 19, 1980, Federal Register.

*** Only applies to disposal facilities

VII. CLOSURE AND POST CLOSURE
(Part 265 Subpart G)

Yes	No	NI*	Remarks
-----	----	-----	---------

(A) Closure and Post Closure

1. Is the facility closure plan available for inspection by May 19, 1981?

2. Has this plan been submitted to the Regional Administrator

X

3. Has closure begun?

X

4. Is closure estimate available by May 19, 1981?

X

(B) Post closure care and use of property

Has the owner or operator supplied
a post closure monitoring plan?
(effective by May 19, 1981)

$$\frac{N}{A}$$

VIII. FACILITY STANDARDS

(Part 265, Subparts I thru R)

I USE AND MANAGEMENT OF CONTAINERS

Facility Name: ARMAK

Date of Inspection: 8-21-81

Yes	No	NI*	Remarks
-----	----	-----	---------

1. Are containers in good condition?

X

2. Are containers compatible with waste in them?



3. Are containers stored closed?

☒ ☐ ☐

4. Are containers managed to prevent leaks?

X

5. Are containers inspected weekly for leaks and defects?

X

6. Are ignitable & reactive wastes stored at least 15 meters (50 feet) from the facility property line? (Indicate if waste is ignitable or reactive.)

N/A

	Yes	No	NI*	Remarks
7. Are incompatible wastes stored in separate containers? (If not, the provisions of 40 CFR 265.17(b) apply.)	---	---	N/A	-----
8. Are containers of incompatible waste separated or protected from each other by physical barriers or sufficient distance?	---	---	N/A	-----

J
TANKS

Facility Name: _____ Date of Inspection: _____

1. Are tanks used to store only those wastes which will not cause corrosion, leakage or premature failure of the tank?	---	---	N/A	-----
2. Do uncovered tanks have at least 60 cm (2 feet) of freeboard, or dikes or other containment structures?	---	---	N/A	-----
3. Do continuous feed systems have a waste-feed cutoff?	---	---	N/A	-----
4. Are waste analyses done before the tanks are used to store a substantially different waste than before?	---	---	N/A	-----
5. Are required daily and weekly inspections done?	---	---	N/A	-----
6. Are reactive & ignitable wastes in tanks protected or rendered non-reactive or non-ignitable? Indicate if waste is ignitable or reactive. (If waste is rendered non-reactive or non-ignitable, see treatment requirements.)	---	---	N/A	-----
7. Are incompatible wastes stored in separate tanks? (If not, the provisions of 40 CFR 265.17(b) apply.)	---	---	N/A	-----

*Not Inspected

OMITTED PAGES 11-18

	Yes	No	NI*	Remarks
3. Has the owner or operator addressed the waste analysis requirements of 265.402?	—	—	N/A	—
4. Are inspection procedures followed according to 265.403?	—	—	N/A	—
5. Are the special requirements fulfilled for ignitable or reactive wastes?	—	—	N/A	—
6. Are incompatible wastes treated? (If yes, 265.17(b) applies.)	—	—	N/A	—

Note: EPA has temporarily suspended the applicability of the requirements of the hazardous waste regulations in 40 CFR Parts 122, 264 and 265 to owners and operators of (1) wastewater treatment tanks that receive, store, and treat wastewaters that are hazardous waste or that generate, store or treat a wastewater treatment sludge which is a hazardous waste where such wastewaters are subject to regulation under Sections 402 or 307(b) of the Clean Water Act (33 U.S.C. 1251 et seq.) and (2) neutralization tanks, transport vehicles, vessels, or containers which neutralize wastes which are hazardous only because they exhibit the corrosivity characteristic under 40 CFR §261. or are listed as hazardous wastes in Subpart D of 40 CFR Part 261 only for this reason.

IX

Complete this section if the owner or operator of a TSD facility also generates hazardous waste that is subsequently shipped off-site for treatment, storage, or disposal.

I. MANIFEST REQUIREMENTS

	Yes	No	NI*	Remarks
(A) Does the operator have copies of the manifest available for review?	X	—	—	HAVE NOT SHIPPED HAZARDOUS WASTE SINCE 3-80 INSPECTED MANIFE
(B) Do the manifest forms reviewed contain the following information: (If possible, make copies of, or record information from, manifest(s) that do not contain the critical elements)				FOR SPECIAL WASTE STREAMS
1. Manifest document number?	X	—	—	—
2. Name, mailing address, telephone number, and EPA ID Number of Generator	X	—	—	—

	Yes	No	NI*	Remarks
3. Name and EPA ID Number of Transporter(s)?	—	—	N/A	_____
4. Name, address, and EPA ID Number of Designated permitted facility and alternate facility?	—	—	N/A	_____
5. The description of the waste(s) (DOT shipping name, DOT hazard class, DOT identification number)?	—	—	N/A	_____
6. The total quantity of waste(s) and the type and number of containers loaded?	X	—	—	_____
7. Required certification?	—	—	N/A	_____
8. Required signatures?	X	—	—	_____
(C) Does the owner or operator submit exception reports when needed?	—	—	N/A	_____

2. PRE-TRANSPORT REQUIREMENTS

(A) Is waste packaged in accordance with DOT Regulations? (Required prior to movement of hazardous waste off-site)	X	—	—	_____
(B) Are waste packages marked and labeled in accordance with DOT regulations concerning hazardous waste materials? (Required to movement of hazardous waste off-site)	X	—	—	_____
(C) If required, are placards available to transporters of hazardous waste?	X	—	—	_____

OMITTED PAGE 21

VI. RECORDKEEPING and REPORTING
(Part 262, Subpart D)

	Yes	No	NI*	Remarks
(A) Are Manifests, Annual Reports, Exception Reports, and all test results and analyses retained for at least three years?	<u>X</u>	—	—	_____
(B) Has the generator submitted Annual Reports and Exception Reports as required?	<u>X</u>	—	—	_____

VII. INTERNATIONAL SHIPMENTS
(Part 262, Subpart E)

Has the installation imported or exported Hazardous Waste?	—	<u>X</u>	—	_____
--	---	----------	---	-------

(If answered Yes, complete the following as applicable.)

1. Exporting Hazardous waste, has a generator:				
a. Notified the Administrator in writing?	—	—	—	_____
b. Obtained the signature of the foreign consignee confirming delivery of the waste(s) in the foreign country?	—	—	—	_____
c. Met the Manifest requirements?	—	—	—	_____
2. Importing Hazardous Waste, has the generator:				
Met the manifest requirements?	—	—	—	_____

OMITTED PAGE 23

REMARKS

Use this section to briefly describe site activities observed at the time of the inspection. Note any possible violations of Interim Status Standards.

ARMAK GENERATES MERCURY ACETATE AT AN APPROXIMATE RATE OF 2-3 DRUMS PER MONTH. SPECIAL WASTES GENERATED AT THIS SITE INCLUDE NICKEL CATALYST FILTER ~~PAPER~~ AND FATTY ACID WASTE. ARMAK IS WORKING ON THE POSSIBLE ELIMINATION OF ~~ARMAK~~ MERCURY ACETATE GENERATION OR THE TREATMENT OF THE WASTE ON SITE.

ARMAK IS A SMALL QUANTITY GENERATOR OF HAZARDOUS WASTE, HOWEVER ARMAK HAS ACCUMULATED IN EXCESS OF 1000KG AND THUS IS SUBJECT TO REGULATION. THE INSPECTION DISCLOSED THAT ARMAK IS IN COMPLIANCE WITH APPLICABLE RCRA ISS STANDARDS.

L P C F C O 5 5 C
(1) (8) (9)

OBSERVATION REPORT - SITE INVENTORY NO. 03117404

CO. - L.P.C.

Region # N

Date 08/21/81

(20)

(25)

Letter Sent (Yes or No) N

(26)

(Location)

(Responsible Party)

Samples Taken: Yes () No (X)

Time: From 09:30 a.m.

Weather CLEAR 70°F

Ground Water() Surface() Other()

To 11:00 a.m.

Photos Taken: Yes () No (X)

Interviewed

Inspector M W S

(27)

(29)

Previous Inspection

Previous Correspondence

Site Open: Yes (X) No ()

OPERATIONAL STATUS:

TYPE OF OPERATION:

AUTHORIZATION:

Operating (X)

Landfill ()

Storage ()

E.P.A. Permit ()

Temporarily Closed ()

Random Dump ()

Salvage ()

Variance ()

Closed Not Covered ()

Other Storage (X)

A.C.D. ()

21(e) ()

Closed and Covered ()

Quantity Received Daily(1-6)

(30)

Board Order ()

Illegal (5) ()

(31)

IMPROVED

LPC 4 1/79 5,000

SAME

DETERIORATED

I S or D

(62)

GENERAL REMARKS: ARMAK GENERATES MERCURY ACETATE WASTE AT AN APPROXIMATE RATE OF 2-3 DRUMS PER MONTH. THIS WASTE IS PERMITTED FOR DISPOSAL AT JOLIET EST. LANDFILL. SPECIAL WASTES GENERATED AT THE SITE INCLUDE NICKEL CATALYST PAPER AND PATTY ACID WASTE. ARMAK IS WORKING ON THE POSSIBLE ELIMINATION OF THE GENERATION OF THE MERCURY ACETATE OR THE TREATMENT OF IT

INTERVIEW: ON SITE ARMAK IS A SMALL QUANTITY GENERATOR OF HAZARDOUS WASTE. HOWEVER, ARMAK HAS ACCUMULATED IN EXCESS OF 1000 KG AND THUS IS SUBJECT TO REGULATION. THE INSPECTION REVEALED THAT ARMAK IS IN COMPLIANCE WITH APPLICABLE RCRA LSS STANDARDS

DIAGRAM:

